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F-16 AIRCREW TRAINING DEVELOPMENT PROJECT

Contract No. F02604-79-C8875

F-16 TASK ANALYSIS  
CRITERION-REFERENCED OBJECTIVE  
AND OBJECTIVES HIERARCHY REPORT

VOLUME I

DEVELOPMENT REPORT No. 6  
MARCH 1981

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Prepared in fulfillment of CDRL no. B012  
and partial fulfillment of CDRL nos. B013, B015, and B019

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# PREFACE

This report was created for the F-16 Aircrew Training Development Project contract no. F02604-79-C8875 for the Tactical Air Command to comply with the requirements of CDRL no. B012, B013, B015 and B019. The project entailed the design and development of an instructional system for the F16 RTU and instructor pilots. During the course of the project, a series of development reports was issued describing processes and products. A list of those reports follows this page. The user is referred to Report No. 34, A Users Guide to the F-16 Training Development Reports, for an overview and explanation of the series, and Report No. 35, F-16 Final Report, for an overview of the Instructional System Development Project.

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F-16 AIRCREW TRAINING  
DEVELOPMENT PROJECT REPORTS

Copies of these reports may be obtained by writing the Defense Technical Information Center, Cameron Station, Alexandria, Virginia 22314. All reports were reviewed and updated in March 81.

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## EXECUTIVE SUMMARY

This report contains the F-16 pilot training task listing, criterion-referenced objectives (CROs), objectives hierarchies and course map. A task listing is the logical breakdown of a task or job into its component subtasks. For instructional purposes, each of these subtasks is then converted into a CRO complete with conditions and standards for successful performance. The interrelationship of the CROs is identified and represented in a hierarchical arrangement.

For example, the major task of "performing the duties of an F-16 pilot" was divided into the following 11 subtasks:

1. Prepermission planning
2. Pretakeoff procedures
3. Takeoff
4. Departure
5. Enroute procedures
6. Air refueling
7. Combat
8. Recovery
9. Landing
10. Post-flight procedures
11. Mission debriefing

Each of these subtasks were then broken down into smaller performances. For instance, under prepermission planning such tasks as collect weather data, collect operations data, etc. were identified. These performances form the basis of the CROs. This reduction in task complexity provides the logical rationale for the hierarchical arrangement.

All tasks relevant to the F-16 training program are listed in this report. This provides the foundation for all subsequent instructional design and development activities.

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F-16 TASK ANALYSIS,  
CRITERION-REFERENCED OBJECTIVE,  
AND OBJECTIVES HIERARCHY REPORT

INTRODUCTION

This report contains the F-16 pilot training task listing, task hierarchies, criterion-referenced objectives (CROs), and objectives hierarchies as of the end of F-16 Aircrew Training Development Project March 1981. Additionally, the academic objectives which support the tasks actually taught in the F-1600B course are presented. The distinction between these two sources of data and their use will be presented in a latter section.

When using this report, it is important for the reader to keep in mind that the analysis was conducted on an emerging weapons system. Therefore, some of the tasks and objectives presented here are not relevant to today's F-16. The reasons for leaving these obsolete tasks and objectives in this report will be elaborated below.

The report is divided into four volumes for convenience in binding. Detailed information on rationale and methodology for the analysis which produced this document is available in the following F-16 Development Reports:

Task Analysis Methodology Report, F-16 Development Report  
No. 7, October 1978.

Derivation, Formatting, and Use of Criterion-referenced  
Objectives (CROs) and Criterion-referenced Tests (CRTs),  
F-16 Development Report No. 5, September 1977.

Objectives Hierarchy Analysis Methodology Report, F-16  
Development Report No 8, October 1978.

Only a brief introduction to each of these three analyses is presented in the sections which follow.

## TASK LISTING

A task listing for instructional development purposes is the logical breakdown of a performance task or job into its component subtasks, down to the level of individually measurable performance tasks. For F-16 pilot training, the major task, 1.0 "Perform duties of an F-16 pilot", has been divided into the following eleven major subtasks:

- 1.1 Perform premission planning
- 1.2 Perform pretakeoff procedures
- 1.3 Perform takeoff
- 1.4 Perform departure
- 1.5 Perform enroute procedures
- 1.6 Perform air refueling
- 1.7 Perform combat
- 1.8 Perform recovery
- 1.9 Perform landing
- 1.10 Perform post flight procedures
- 1.11 Perform mission debriefing

These major subtasks represent the phases of a flight during combat. Each subtask is further broken down until the tasks reached can be effectively observed and evaluated during one performance session. Examples of tasks at this level are 1.1.2.4.15 "Calculate offset aim points" and 1.7.5.2.9.3.4 "Perform missile break turn". There are about 1,000 tasks in the F-16 task listing, of which about 700 are at this lowest level.

## CROS AND OBJECTIVES HIERARCHIES

Each of the lowest level performance tasks (usually those with at least a four number designator) is converted into a CRO. For each CRO a set of conditions and a standard for performance are defined, along with other related data such as criticality of correct performance and difficulty. In addition the CROs contain an outline of the steps followed during task performance. The CROs also provide a convenient collection point for several items of data used in other instructional development procedures.

Each CRO is further analyzed to determine the set of training objectives necessary to train a student to the level of practice and mastery of the CRO. The objectives occur in the form of hierarchies showing superordinate-subordinate relationships between the CRO supporting the task and the objectives. Objectives can be trained and tested with a variety of presentation media, such as workbooks, pencil and paper tests, or a cockpit familiarization trainer, whereas the CRO is normally performed in a simulated environment or in the aircraft.

### USES OF THIS REPORT

To use this report, the user should keep in mind the distinction between a task listing and a course map. As stated earlier, the task listing is the logical breakdown of a task into its component subtasks, whereas the course map indicates only those tasks and supporting objectives that are taught in the course. The first eleven sections of this report are the task listings and the twelfth section contains the course map.

The task listing can be used for both historical and reference purposes. As historical document, this report consists of all the tasks once though relevant to flying the F-16. However, because of mission or equipment changes, some of the tasks originally identified as important to F-16 training were later deleted. These tasks were left in the report but they are identified as being deleted from the present task listing. Knowing how this task listing evolved may help future developers as they deal with the complexities of maintaining and updating a task listing on an emerging weapons system.

As a reference source, this report could serve as the starting point when future members of the F-16 OTD team are tasked with revising the course materials. For example, at some future date when the Engine System workbook needs revision, this report could help the individual responsible for revising the workbook in the following ways. First, the individual could use the course map to identify those tasks which the objectives in the workbook were designed to support. Next, the objectives hierarchies supporting those tasks could be examined to see if lesson should now be included. If not, then of course the individual would have to consult other sources of data for revision content.

Finally, the task listing and course map could be used when new tasks are incorporated into the course. For example, when the simulator comes on line, the OTD team may identify the need for new tasks to be learned in academics prior to simulator use. The task listing and coursemap would aid in the identification of prerequisite relationships between the new tasks and tasks already in the course, and this would have implications for the sequencing of the newmaterial into the course.

## UPDATE OF THIS REPORT

The task list, CROs, and objectives hierarchies form the foundation of much of the instructional design and development that follow, such as determination of the syllabus, sequencing of objectives, and media selection. As the content of the instruction changes, (due to changes in the aircraft, its employment, etc.) the task list, CROs, and objectives hierarchies should be updated accordingly. Therefore, these data bases are continually evolving. The results presented in this report are based on what is presently known about the aircraft and its planned use.

At present there are some CROs that have not been written. These CROs are identified by their number designator at the beginning of each section. It is hoped that in the future, as time permits, these CROs will be written.

Updating of the task list and CROs have been greatly aided by the use of a word processing system for storage of task data. This also allows for the quick searching of data and for production of multiple-use reports from the same data base.

## REPORT NOTATIONS

Some of the features of the data presentation in this report may need explanation. In the task list sections, task numbers and their accompanying behaviors are presented in two forms: (1) list form and (2) graphic form. The task numbering follows the hierarchical breakdown of tasks into subtasks described above. Tasks marked "(E)" are entry level tasks, that is, tasks which incoming students should already be able to perform. Such tasks have been included in the task list when it was determined that their exclusion would be questioned. Otherwise, the task listing is intended to go to the level of entry but does not include it. Although the task list is the collection of tasks performed during regular use of the aircraft, there are some tasks that are only performed during training, such as range and dart tow procedures. These tasks, though not properly a part of the task list, have been included in it and are labelled by "(T)". There are also tasks in the listing that although not taught as part of the training program, are part of the continuation training. These tasks are designated with the letter "(C)". Finally, those tasks that have been deleted from the task listing are identified by the letter "(D)". Subsequent development work will identify more of these, and they will be added to the task listing as they are identified.

The form of the CROs is explained in detail in F-16 Development Report No. 5 listed above. Some of the CROs, including several in Section 1.7, Combat, have not been defined because data are not yet available or because of the subject-matter expert manpower shortage. For these, placeholders have been provided listing the task behavior but no other data. These will be completed as time and manpower permit.

An objectives hierarchy is provided for each CRO. On the hierarchy diagrams, the CRO is the highest level solid box in the hierarchy. The top, dashed box is the next higher level task in the task listing. The unnumbered boxes below the CRO represent the training objectives for that CRO. These boxes are arranged according to a hierarchy of training knowledge prerequisites. Boxes on the same horizontal level can be learned in any order. Unnumbered hexagonal boxes represent objectives common to several hierarchies. Numbered hexagonal boxes represent CROs that provide information prerequisite to the mastery of the current CRO. (These show up on the CRO page as enabling tasks.) Hierarchies which have not been completed have been labelled "TBD" (to be determined).

1 Perform all F-16 missions [Hands-on]

1.1 Perform mission planning [Hands-on]

1.1.1 Collect mission data from agencies [Hands-on]

1.1.1.1 Collect intelligence data [Hands-on]

1.1.1.1.1 Given a mission, state the elements of intelligence data which must be collected for premission planning without omission. [Academic]

1.1.1.1.2 State the definitions of standard intelligence terms without error [Academic]

1.1.1.2 Collect weather data [Hands-on]

1.1.1.2.1 With no omissions, state the elements of weather data which must be collected for premission planning for non-tactical missions. [Academic]

1.1.1.2.2 State the uses of weather information in planning tactical missions without omission. [Academic]

1.1.1.3 Collect operations data [Hands-on]

1.1.1.3.1 Given a specific mission, state the elements of operations data which must be collected for premission planning without omission. [Academic]

1.1.1.3.2 State the elements of operations data which must be collected prior to a tactical mission for premission planning, without omission. [Academic]

1.1.2 Determine the mission data [Hands-on]

1.1.2.1 Determine pretakeoff data [Hands-on]

1.1.2.1.1 Determine mission-required personal support equipment [Hands-on]

1.1.2.1.2 Determine station time [Hands-on]

1.1.2.1.3 Determine start engine time [Hands-on]

1.1.2.1.4 List the pretakeoff data which must be determined during premission planning. [Hands-on]

1.1.2.2 Determine takeoff data [Hands-on]

1.1.2.2.1 Compute gross weight [Hands-on]

1.1.2.2.1.1 Given aircraft configuration information and the classified supplement to the -1, compute gross weight within +/- 500 pounds. [Academic]

1.1.2.2.2 Compute drag index [Hands-on]

1.1.2.2.2.1 Given aircraft configuration information and the classified supplement to the -1, determine drag index without error. [Academic]

1.1.2.2.3 Compute takeoff factor [Hands-on]

1.1.2.2.3.1 Given environmental data and aircraft configuration, compute takeoff factor within +/- .2 units. [Academic]

1.1.2.2.4 Compute rotation speed and takeoff speed [Hands-on]

1.1.2.2.4.1 Given aircraft configuration information, center of gravity and gross weight, compute rotation speed and takeoff speed within  $\pm 5$  KIAS [Academic]

1.1.2.2.5 Compute takeoff and landing crosswind components [Hands-on]

1.1.2.2.5.1 Given runway heading, wind speed and direction, compute takeoff and landing crosswind components within  $\pm 2$  knots. [Academic]

1.1.2.2.6 Compute takeoff roll (ground run distance) [Hands-on]

1.1.2.2.6.1 Given drag index, takeoff gross weight, corrected and uncorrected takeoff speed, runway slope, wind speed and direction, and takeoff factor, compute takeoff roll (ground run distance) within  $\pm 200$  feet. [Academic]

1.1.2.2.7 Compute acceleration check speed [Hands-on]

1.1.2.2.7.1 Given drag index, takeoff gross weight, corrected and uncorrected and takeoff speed, runway slope, wind speed and direction, and takeoff factor, compute acceleration, check speed within  $\pm 5$  KIAS. [Academic]

1.1.2.2.8 Compute maximum abort speed and maximum brake speed for MIL or MAX power takeoffs [Hands-on]

1.1.2.2.8.1 Given takeoff gross weight, runway slope, wind speed and direction, and takeoff factor, compute maximum abort speed and maximum brake speed for MIL or MAX power takeoffs within  $\pm 5$  KIAS. [Academic]

1.1.2.2.9 Compute effect of runway condition on maximum abort speed [Hands-on]

1.1.2.2.9.1 Given takeoff gross weight, runway slope, wind speed and direction, and takeoff factor, compute effect of runway condition on maximum abort speed within  $\pm 10$  percent. [Academic]

1.1.2.3 Determine departure data [Hands-on]

1.1.2.3.1 Calculate taxi, takeoff, and climbout fuel, time, and distance for MIL/MAX power thrust [Hands-on]

1.1.2.3.1.1 Given a mission assignment and relevant mission information, calculate taxi, takeoff, and climbout fuel (time and distance) for MIL/MAX power thrust. Time correct within  $\pm .5$  minute, fuel within  $\pm 50$  pounds, and distance  $\pm 2$  miles [Academic]

1.1.2.3.2 Calculate best cruise altitude and combat, cruise, and service ceiling altitudes [Hands-on]

1.1.2.3.2.1 Given a mission assignment and relevant mission information, compute best cruise altitude and combat, cruise, and service ceiling altitudes. Altitude values must be correct within  $\pm 1,000$  feet. [Academic]

1.1.2.3.3 Compute military thrust climb performance data [Hands-on]

1.1.2.3.3.1 Given a mission assignment and relevant mission information, compute military thrust climb performance data. Time values must be correct within  $\pm .5$  minute, fuel values within  $\pm 50$  pounds, and distance values within  $\pm 2$  miles. [Academic]

1.1.2.3.4 Compute maximum A/B climb performance data [Hands-on]

1.1.2.3.4.1 Given a mission assignment and relevant mission information, compute maximum A/B climb performance data. Time must be correct within  $\pm .2$  minutes, fuel within  $\pm 100$  pounds, and distance within  $\pm 2$  miles. [Academic]

1.1.2.4 Determine enroute data [Hands-on]

1.1.2.4.1 Compute optimum Mach/constant altitude cruise: Mach number, true airspeed, groundspeed, and time required to cruise a given distance [Hands-on]

1.1.2.4.1.1 Given a mission assignment and relevant mission info, compute optimum Mach/constant alt. cruise: Mach number  $\pm .01$ , true airspeed  $\pm 10$  knots, groundspeed  $\pm 10$  knots, and time required to cruise a given distance within  $\pm 2 \frac{1}{2}$  mins. [Hands-on]

1.1.2.4.2 Compute optimum Mach/constant altitude cruise: specific range, fuel flow, and fuel required to cruise a specified time [Hands-on]

1.1.2.4.2.1 Given a mission assignment and relevant mission info, compute optimum Mach/constant alt. cruise: specific range within  $\pm .005$  nautical miles/lb., fuel flow within  $\pm 100$  lbs/hr., and fuel required to cruise a specified time within  $\pm 100$  lb. [Academic]

1.1.2.4.3 Compute altitude factor [Hands-on]

1.1.2.4.3.1 Given a mission assignment and relevant mission information, compute altitude factor within  $\pm 0.2$  [Academic]

1.1.2.4.4 Convert altitude factor into altitude. [Hands-on]

1.1.2.4.4.1 Given a mission assignment and relevant mission information, convert altitude factor into altitude within  $\pm 500$  ft. [Academic]

1.1.2.4.5 Compute optimum Mach/optimum altitude cruise data from Subsonic Cruise charts [Hands-on]

1.1.2.4.5.1 Given a mission assignment and relevant mission information, compute optimum Mach/optimum altitude cruise data from subsonic cruise charts. [Academic]

1.1.2.4.6 Compute optimum Mach/constant altitude cruise data from Subsonic Cruise charts [Hands-on]

1.1.2.4.6.1 Given a mission assignment and relevant mission information, compute optimum Mach/constant altitude cruise data from Subsonic Cruise charts. [Academic]

1.1.2.4.7 Compute constant Mach/constant altitude cruise data from Subsonic Cruise charts [Hands-on]

1.1.2.4.7.1 Given a mission assignment and relevant mission information, compute constant Mach/constant altitude cruise data from Subsonic Cruise charts [Academic]

1.1.2.4.8 Compute constant Mach/optimum altitude cruise data from Subsonic Cruise charts [Hands-on]

1.1.2.4.8.1 Given a mission assignment and relevant mission information, compute constant Mach/optimum altitude cruise data from Subsonic Cruise charts [Academic]

1.1.2.4.9 Compute aircraft specific range [Hands-on]

1.1.2.4.9.1 Given a mission assignment and relevant mission information, compute aircraft specific range within  $\pm .0025$  nautical miles/pound. [Academic]

1.1.2.4.10 Compute aircraft fuel flow [Hands-on]

1.1.2.4.10.1 Given a mission assignment and relevant mission information, compute aircraft fuel flow. [Academic]

1.1.2.4.11 Compute aircraft optimum cruise climb performance data from Optimum Cruise Summary chart [Hands-on]

1.1.2.4.11.1 Given a mission assignment and relevant mission information, compute aircraft optimum cruise-climb performance data from Optimum Cruise Summary chart: [Academic]

1.1.2.4.12 Plan an ingress profile for the mission [Hands-on]

1.1.2.4.12.1 Identify potential enemy threats enroute [Hands-on]

1.1.2.4.12.1.1 Given a mission assignment and intel data, identify potential enemy threats which may be encountered with no omissions [Academic]

1.1.2.4.12.1.1.1 Name the considerations of most importance for identifying potential enemy threats enroute without omissions [Academic]

1.1.2.4.12.2 Determine best aircraft defense against each potential enemy threat [Hands-on]

1.1.2.4.12.2.1 Given potential enemy threats, state the best aircraft defense against each in accordance with tactical doctrine [Academic]

1.1.2.4.12.3 Plan passive and active defensive profiles [Hands-on]

1.1.2.4.12.3.1 Given a mission assignment and relevant mission information, plan passive and active defensive profiles in accordance with tactical doctrine. [Academic]

1.1.2.4.12.3.1.1 State the steps and principles in planning active and passive defensive profiles in accordance with current tactical doctrine. [Academic]

1.1.2.4.12.4 Given a mission assignment and relevant mission data, plan an ingress profile. [Academic]

1.1.2.4.12.4.1 Name the considerations of most importance for planning an ingress profile without omission. [Academic]

1.1.2.4.13 Plan altitude and airspeed profiles as well as navigation route [Hands-on]

1.1.2.4.13.1 Given a mission assignment and relevant mission information, plan altitude and airspeed profiles as well as navigational route. [Academic]

1.1.2.4.13.1.1 State the steps and principles in planning altitude and airspeed profiles as well as navigation route in accordance with current doctrine and regulations. [Academic]

1.1.2.4.14 Select initial point [Hands-on]

1.1.2.4.14.1 Given a mission assignment and relevant mission information, select an initial point [Academic]

1.1.2.4.14.1.1 Name the considerations of most importance for selecting an initial point in accordance with current doctrine and regulations. [Academic]

1.1.2.4.15 Select offset aim points [Hands-on]

1.1.2.4.15.1 Given a mission assignment and relevant mission information, select offset aim points [Academic]

1.1.2.4.15.1.1 State conditions under which an offset aim point is required in accordance with doctrine and regulations [Academic]

1.1.2.4.15.1.2 Name the considerations of most importance for selecting an offset aim point in accordance with current doctrine and regulations [Academic]

1.1.2.4.16 Calculate offset data for offset aim point [Hands-on]

1.1.2.4.16.1 Given target area charts, a divider, and a plotter, calculate the offset data for an offset aim point within +/- the smallest unit on the target area chart [Academic]

1.1.2.4.16.1.1 Describe the procedure for calculating offset for offset data aim point without omission [Academic]

1.1.2.4.17 Select enroute navigation modes [Hands-on]

1.1.2.4.17.1 Given a mission assignment and relevant mission information, select enroute navigation modes [Academic]

1.1.2.4.18 Prepare radar predictions [Hands-on]

1.1.2.4.18.1 Given a route map prepare radar predictions, in accordance with IP judgement [Academic]

1.1.2.4.18.1.1 Given a photograph of an object or terrain feature, describe the radar display accurately [Academic]

1.1.2.4.18.2 Describe the effect of errors present in radar ground mapping operations and state considerations in overcoming those effects [Academic]

1.1.2.4.19 Prepare enroute map [Hands-on]

1.1.2.4.19.1 Given a mission assignment and relevant mission information, prepare enroute map in accordance with IP judgement. [Academic]

1.1.2.4.19.1.1 Describe the procedure for preparing enroute map and name the considerations of most importance with no omissions [Academic]

1.1.2.4.20 Determine divert route, fuel, time, and distance (E) [Hands-on]

1.1.2.4.20.1 Given a mission assignment and relevant mission information, determine divert route, fuel, time, and distance. [Academic]

1.1.2.4.20.1.1 Name the considerations of most importance for determining divert route, fuel, time, and distance with no omissions [Academic]

1.1.2.4.21 Given a mission assignment and relevant mission information, plan the enroute phase of the mission consistent with the overall mission plan in accordance with IP judgement. [Academic]

1.1.2.4.22 Describe the procedure for enroute planning and name the considerations of most importance with no omissions. [Academic]

1.1.2.4.23 Name the aids to navigation and identify the situations where each may or should be employed with no omissions. [Academic]

1.1.2.5 Accomplish air-to-air refueling planning [Hands-on]

1.1.2.5.1 Given a mission assignment and relevant mission information, accomplish air-to-air refueling planning [Academic]

1.1.2.5.1.1 Describe the procedure for accomplishing air-to-air refueling planning without omission [Academic]

1.1.2.6 Prepare combat data [Hands-on]

1.1.2.6.1 Prepare air-to-surface combat data [Hands-on]

1.1.2.6.1.1 Plan the delivery profile [Hands-on]

1.1.2.6.1.1.1 Determine primary and alternate delivery modes [Hands-on]

1.1.2.6.1.1.1.1 Given a mission assignment and relevant mission data determine primary and alternate delivery modes in accordance with IP judgement. [Academic]

1.1.2.6.1.1.1.1.1 Given the varieties of delivery modes, describe the situations where each may or should be employed in accordance with IP judgement. (Weapons Systems) [Academic]

1.1.2.6.1.1.2 Evaluate target characteristics [Hands-on]

1.1.2.6.1.1.2.1 Given a mission assignment and relevant mission data evaluate target characteristics in accordance with current doctrine and regulations. [Academic]

1.1.2.6.1.1.2.1.1 Name the considerations of most importance for evaluating target characteristics with no omissions [Academic]

1.1.2.6.1.1.2.1.2 State the major sources of target information (JNEMS, etc.) with no omissions, and briefly describe the nature of the information without error [Academic]

1.1.2.6.1.1.3 Evaluate threat data in target area [Hands-on]

1.1.2.6.1.1.3.1 Given a mission assignment and relevant mission data, evaluate threat data in target area in accordance with current doctrine and regulations. [Academic]

1.1.2.6.1.1.3.1.1 Name the considerations most important for target area threat evaluations with no omissions. [Academic]

1.1.2.6.1.1.4 Match ordnance characteristics with specific mission requirements [Hands-on]

1.1.2.6.1.1.4.1 Given a mission assignment and relevant mission data, match ordnance characteristics with specific mission requirements in accordance with current doctrine and regulations. [Academic]

1.1.2.6.1.1.4.1.1 Given ordnance types, describe the situations where each may or should be employed. [Academic]

1.1.2.6.1.1.4.1.2 State the major sources of ordnance effects data given targets (JNEMS, etc.) with no omissions and briefly describe the nature of the information without error. [Academic]

1.1.2.6.1.1.5 Select ordnance [Hands-on]

1.1.2.6.1.1.5.1 Given a mission assignment and relevant mission data, select ordnance in accordance with current doctrine and regulations. [Academic]

1.1.2.6.1.1.5.1.1 Name the considerations of most importance for selecting ordnance without omission. [Academic]

1.1.2.6.1.1.6 Determine ordnance data [Hands-on]

1.1.2.6.1.1.6.1 Compute minimum safe separation parameters [Hands-on]

1.1.2.6.1.1.6.1.1 Given a mission assignment and relevant mission data, compute minimum safe separation parameters without error. [Academic]

1.1.2.6.1.1.6.2 Compute frag patterns [Hands-on]

1.1.2.6.1.1.6.2.1 Given a mission assignment and relevant mission data, compute frag patterns within +/- 250 feet. [Academic]

1.1.2.6.1.1.6.3 Determine fuse function times required [Hands-on]

1.1.2.6.1.1.6.3.1 Given weapon, release altitude, dive angle and true air speed, determine fuse function times required without error. [Academic]

1.1.2.6.1.1.6.4 Determine fuse arming times required [Hands-on]

1.1.2.6.1.1.6.4.1 Given a mission assignment and relevant mission data, determine fuse arming times required without error. [Academic]

1.1.2.6.1.1.7 Select roll-in altitude profile [Hands-on]

1.1.2.6.1.1.7.1 Given a mission assignment and relevant mission data, select roll-in altitude profile in accordance with current tactical doctrine. [Academic]

1.1.2.6.1.1.7.1.1 Name the considerations of most importance for selecting roll-in profile with no omissions. [Academic]

1.1.2.6.1.1.8 Select target attack heading [Hands-on]

1.1.2.6.1.1.8.1 Given a mission assignment and relevant mission data, select target attack heading in accordance with current tactical doctrine [Academic]

1.1.2.6.1.1.8.1.1 Name the considerations of most importance for selecting target attack heading with no omissions. [Academic]

1.1.2.6.1.1.9 Select dive angle [Hands-on]

1.1.2.6.1.1.9.1 Given a mission assignment and relevant mission data, select dive angle in accordance with current tactical doctrine and regulations. [Academic]

1.1.2.6.1.1.9.1.1 Name the considerations most important for selecting dive angle with no omissions [Academic]

1.1.2.6.1.1.10 Select release pressure altitude and convert to indicated altitude. [Hands-on]

1.1.2.6.1.1.10.1 Given a mission assignment and relevant mission data, select release pressure altitude IAW current tactical doctrine and regulations. [Academic]

1.1.2.6.1.1.10.1.1 Name the considerations of most importance for selecting release pressure altitude with no omissions. [Academic]

1.1.2.6.1.1.10.2 Given a pressure altitude, convert it to indicated altitude without error (E) [Academic]

1.1.2.6.1.1.11 Compute altitude loss during recovery [Hands-on]

1.1.2.6.1.1.11.1 Given a planned delivery profile, compute altitude loss during recovery within +/- 50 feet. [Academic]

1.1.2.6.1.1.12 Determine release true airspeed and convert to indicated airspeed [Hands-on]

1.1.2.6.1.1.12.1 Given a planned delivery profile, determine release true airspeed within +/- 10 knots. [Academic]

1.1.2.6.1.1.12.2 Given appropriate Dash 34 charts and requisite data, convert the release true airspeed to indicated airspeed within +/- KIAS (E). [Academic]

1.1.2.6.1.1.13 Select number of passes [Hands-on]

1.1.2.6.1.1.13.1 Given a mission assignment and relevant mission data, select the number of passes IAW current tactical doctrine [Academic]

1.1.2.6.1.1.13.1.1 Name the considerations of most importance for selecting the number of passes with no omissions [Academic]

1.1.2.6.1.1.14 Determine manual delivery data [Hands-on]

1.1.2.6.1.1.14.1 Determine MIL setting and wind correction [Hands-on]

1.1.2.6.1.1.14.1.1 Given a planned delivery profile, determine MIL setting and wind correction within +/- 5 MILs. [Academic]

1.1.2.6.1.1.14.2 Determine release range [Hands-on]

1.1.2.6.1.1.14.2.1 Given a planned delivery profile, determine release range within +/- 50 feet [Academic]

1.1.2.6.1.1.14.3 Determine aim off distance [Hands-on]

1.1.2.6.1.1.14.3.1 Given a planned delivery profile, determine aim off distance within +/- 100 feet [Academic]

1.1.2.6.1.1.14.4 Compute impact interval in milliseconds for given stick length [Hands-on]

1.1.2.6.1.1.14.4.1 Given a planned delivery profile, compute impact interval in milliseconds for given stick length within +/- 10 milliseconds. [Academic]

1.1.2.6.1.1.14.5 Calculate crosswind correction [Hands-on]

1.1.2.6.1.1.14.5.1 Given a planned delivery profile, windspeed, and wind direction, calculate crosswind correction within +/- 1 foot/knot. [Academic]

1.1.2.6.1.1.14.6 Calculate initial pipper placement (IPP) [Hands-on]

1.1.2.6.1.1.14.6.1 Given a planned delivery profile, calculate initial pipper placement (IPP) within +/- 5 MILS. [Academic]

1.1.2.6.1.1.14.7 Calculate RAP [Hands-on]

1.1.2.6.1.1.14.7.1 Given a planned delivery profile, calculate RAP within +/- 10 feet. [Academic]

1.1.2.6.1.1.14.8 Describe the function of each type of data to be derived during manual delivery planning without error [Academic]

1.1.2.6.1.1.15 Given a mission assignment and relevant mission data, plan the delivery profile in accordance with current doctrine and regulations. [Academic]

1.1.2.6.1.1.15.1 Given a mission assignment and relevant mission data, plan the delivery profile in accordance with current doctrine and regulations. [Academic]

1.1.2.6.1.2 Plan egress profile (altitude, airspeed, and heading) from the immediate target area [Hands-on]

1.1.2.6.1.2.1 Given a mission assignment and relevant mission data, plan an appropriate egress profile (altitude, airspeed, and heading) from the immediate target area in accordance with IP judgement [Academic]

1.1.2.6.1.2.2 Name the considerations most important for planning an egress profile from the immediate target area with no omissions. [Academic]

1.1.2.6.1.3 Accomplish premission planning for specific A-S missions [Hands-on]

1.1.2.6.1.3.1 Plan for SCAR missions as strike aircraft (C) [Hands-on]

1.1.2.6.1.3.1.1 Given a mission assignment and relevant mission data, plan for a SCAR mission as strike aircraft in accordance with current tactical doctrine [Academic]

1.1.2.6.1.3.1.1.1 State the tactical considerations for planning a SCAR mission with no omissions [Academic]

1.1.2.6.1.3.2 Plan for close air support missions (C) [Hands-on]

1.1.2.6.1.3.2.1 Given a mission assignment and relevant mission data, plan for a close air support mission in accordance with current tactical doctrine [Academic]

1.1.2.6.1.3.2.1.1 State the tactical considerations for planning a close air support mission with no omissions [Academic]

1.1.2.6.1.3.3 Plan for hunter-killer missions (C) [Hands-on]

1.1.2.6.1.3.3.1 Given a mission assignment and relevant mission data, plan for a hunter-killer mission IAW current tactical doctrine [Academic]

1.1.2.6.1.3.3.1.1 State the tactical considerations for planning a hunter-killer mission with no omissions. [Academic]

1.1.2.6.1.3.4 Plan for air-to-surface escort missions (C) [Hands-on]

1.1.2.6.1.3.4.1 Given a mission assignment and relevant mission data, plan for an air-to-surface escort mission IAW current tactical doctrine. [Academic]

1.1.2.6.1.3.4.1.1 State the tactical considerations for planning air-to-surface escort mission with no omissions. [Academic]

1.1.2.6.1.3.5 Plan for day interdiction missions [Hands-on]

1.1.2.6.1.3.5.1 Given a mission assignment and relevant mission data, plan for a day interdiction mission IAW current tactical doctrine. [Academic]

1.1.2.6.1.3.5.1.1 State the tactical considerations for planning a day interdiction mission with no omissions. [Academic]

1.1.2.6.1.3.6 Plan for armed recce missions [Hands-on]

1.1.2.6.1.3.6.1 Given a mission assignment and relevant mission data, plan for an armed recce mission IAW current tactical doctrine [Academic]

1.1.2.6.1.3.6.1.1 State the tactical considerations for planning armed recce mission with no omissions. [Academic]

1.1.2.6.1.3.7 Plan for night air-to-surface missions [Hands-on]

1.1.2.6.1.3.7.1 Given a mission assignment and relevant mission data, plan for a night air-to-surface mission IAW current tactical doctrine. [Academic]

1.1.2.6.1.3.7.1.1 State the tactical considerations for planning a night air-to-surface mission with no omissions. [Academic]

1.1.2.6.1.3.8 Plan for conventional or tactical range mission (T) [Hands-on]

1.1.2.6.1.3.8.1 Given a mission assignment and relevant mission data, plan for a conventional or tactical range mission IAW current tactical doctrine and training restrictions [Academic]

1.1.2.6.1.3.8.1.1 State the tactical considerations for planning a conventional or tactical range mission with no omissions. [Academic]

1.1.2.6.1.3.8.2 Given a mission assignment and relevant mission data, plan for a conventional range mission IAW current training restrictions. [Academic]

1.1.2.6.1.3.9 Plan for nuclear strike mission. [Hands-on]

1.1.2.6.1.3.10 Given the varieties of A-S missions, describe the situations where each may be or should be employed in accordance with current tactical doctrine with no omissions. [Academic]

1.1.2.6.2 Plan for air-to-air combat missions. [Hands-on]

1.1.2.6.2.1 Plan for intercept missions [Hands-on]

1.1.2.6.2.1.1 Given a mission assignment and relevant mission data, plan for an intercept mission IAW current doctrine and regulations. [Academic]

1.1.2.6.2.1.1.1 State the primary principles in planning an intercept mission IAW the Phase Manual with no omissions [Academic]

1.1.2.6.2.2 Plan for air-to-air escort missions (C) [Hands-on]

1.1.2.6.2.2.1 Given a mission assignment and relevant mission data plan for an air-to-air escort mission. [Academic]

1.1.2.6.2.2.1.1 State the primary principles in planning an air-to-air escort mission with no omissions. [Academic]

1.1.2.6.2.3 Plan for CAP missions (C) [Hands-on]

1.1.2.6.2.3.1 Given a mission assignment and relevant mission data, plan for a CAP mission. [Academic]

1.1.2.6.2.3.1.1 State the primary principles in planning a CAP mission with no omissions. [Academic]

1.1.2.6.2.4 Plan for DART (T) [Hands-on]

1.1.2.6.2.4.1 Given a mission assignment and relevant mission data plan for a DART mission IAW current doctrine and regulations. [Academic]

1.1.2.6.2.4.1.1 State the primary principles in planning a DART (T) mission with no omissions. [Academic]

1.1.2.6.2.4.1.2 Correctly state the rules-of-engagement for the DART mission IAW current regulations and directives without error or omission. [Academic]

1.1.2.6.2.5 Plan for ACBT (T) [Hands-on]

1.1.2.6.2.5.1 Given a mission assignment and relevant mission data, plan for an ACBT mission IAW current doctrine and regulations. [Academic]

1.1.2.6.2.5.1.1 State the primary principles in planning an ACBT (T) mission with no omissions. [Academic]

1.1.2.6.2.5.1.2 Correctly state the rules-of-engagement for ACBT missions IAW current regulations and directives without errors or omissions [Academic]

1.1.2.6.2.6 Name the varieties of air-to-air missions without omission, and identify the situation where each may or should be employed without error. [Academic]

1.1.2.6.2.7 Correctly state the rules-of-engagement IAW current regulations and directives. [Academic]

1.1.2.6.3 Determine nuclear strike data [Hands-on]

1.1.2.6.3.1 State the unique considerations in planning a nuclear mission to include reattack and alternate targets. [Academic]

1.1.2.6.3.2 Calculate all required parameters and settings for nuclear deliveries [Academic]

1.1.2.7 Plan recovery [Hands-on]

1.1.2.7.1 Plan descent [Hands-on]

1.1.2.7.1.1 Determine enroute radar or STAR descent point (E) [Hands-on]

- 1.1.2.7.1.1.1 Given a mission assignment and relevant mission information, determine enroute radar or STAR descent point (E) [Academic]
- 1.1.2.7.1.2 Determine visual descent point (E) [Hands-on]
- 1.1.2.7.1.3 Determine penetration descent point (E) [Hands-on]
  - 1.1.2.7.1.3.1 Given a mission assignment and relevant mission information, determine penetration point (E) without error [Academic]
- 1.1.2.7.1.4 Calculate minimum fuel/maximum range descent point [Hands-on]
  - 1.1.2.7.1.4.1 Given a mission assignment and relevant mission information, calculate the minimum fuel/maximum range descent point within +/- 10 percent. [Academic]
    - 1.1.2.7.1.4.1.1 Describe the procedure for calculating the minimum fuel/maximum range descent point with no omissions. [Academic]
- 1.1.2.7.2 Calculate the descent fuel requirement [Hands-on]
  - 1.1.2.7.2.1 Given a mission assignment and relevant mission information, calculate the descent fuel requirement within +/- 10 percent. [Academic]
    - 1.1.2.7.2.1.1 Describe the procedure for calculating descent fuel with no omissions. [Academic]
- 1.1.2.7.3 Plan approach [Hands-on]
  - 1.1.2.7.3.1 Compute minimum safe altitude (using FLIP) (E) [Hands-on]
    - 1.1.2.7.3.1.1 Given a mission assignment and relevant mission information, compute minimum safe altitude (using FLIP) (E) without error. [Academic]
  - 1.1.2.7.3.2 Select type of approach [Hands-on]
  - 1.1.2.7.3.3 Determine IFR minimums (E) [Hands-on]
    - 1.1.2.7.3.3.1 Given an approach plate, IFR supplement, and aircraft category code, determine IFR minimums (E) for each type approach without error. [Academic]
- 1.1.2.8 Compute landing data for primary and alternate airfields [Hands-on]
  - 1.1.2.8.1 Given a mission assignment and relevant mission information, compute landing data for primary and alternate airfields. [Academic]
    - 1.1.2.8.1.1 Describe the procedure for computing landing data with no omissions. [Academic]
- 1.1.3 Record data on mission data card [Hands-on]
  - 1.1.3.1 List the items of information required on the mission data card for each type of mission with no omissions. [Academic]
- 1.1.4 Attend mission briefing [Academic]
- 1.1.5 Perform mission briefing (flight lead) [Hands-on]

1.1.5.1 Given a mission assignment and relevant mission information, brief the mission (IP judgement).  
[Academic]

1.1.5.1.1 Describe the procedure for planning a mission briefing and name the considerations of most importance, with no omissions. [Academic]

## 1.1 PREMISSION PLANNING CRITERION-REFERENCED OBJECTIVES

The following list of numbers corresponds to number designators for tasks that have not had CROs prepared. As time and manpower permit, future members of the F-16 OTD team may want to complete or update the CROs. This list along with the sample form used to prepare the CROs are provided to facilitate this latter effort. Tasks needing CROs will be identified at the beginning of each section..

- 1.1.2.1
- 1.1.2.2
- 1.1.2.3
- 1.1.2.4
- 1.1.2.4.12
- 1.1.2.4.18
- 1.1.2.6
- 1.1.2.6.1
- 1.1.2.6.1.1.14
- 1.1.2.6.1.1.14.6
- 1.1.2.6.1.3
- 1.1.2.6.1.3.3 to 1.1.2.6.1.3.5
- 1.1.2.6.3.7
- 1.1.2.6.3.8
- 1.1.2.6.3.9
- 1.1.2.6.3.9.1
- 1.1.2.6.2
- 1.1.2.6.3
- 1.1.2.6.2.4 to 1.1.2.7.2
- 1.1.2.7.3
- 1.1.7.3.1
- 1.1.7.3.3

TASK NO.: 1.1.1.1

BEHAVIOR: Collect intelligence data

-----  
CONDITION:

Agency: Intel

Information source for: Friendly and enemy disposition, strengths,  
and capabilities affecting the mission; target description

Manuals and pubs: Daily intelligence summaries (DISUM)

Information source for: Applicable intelligence information

Activity: Collect mission data from agencies

External environment: N/A

Aids:

Product of previous task: None

Initiation cues: None

Systems presenting cues: N/A

-----  
STANDARD:

Authority: None

Performance precision: Collect completely, to the satisfaction of the  
instructor

Computational accuracy: N/A

TASK NO.: 1.1.1.2

BEHAVIOR: Collect weather data

---

CONDITION:

Agency: Wx

Information source for: AF standard briefing, including required  
base, enroute and target winds, cloud cover, visibility, D-value

Manuals and pubs: None

Information source for: N/A

Activity: Collect mission data from agencies

External environment: N/A

Aids:

Product of previous task: None

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: AFR 60-1

Performance precision: N/A

Computational accuracy: N/A

TASK NO.: 1.1.1.3

BEHAVIOR: Collect operations data

---

CONDITION:

Agency: Ops

Information source for: Aircraft #, weapon status, takeoff time,  
active runway, special mission restrictions, target

Manuals and pubs: Fragmentary order

Information source for: Operating instruction/restrictions,  
target/TOT/support aircraft, agencies

Activity: Collect mission data from agencies

External environment: N/A

Aids: None

Product of previous task:

Initiation cues: Mission tasking order

Systems presenting cues: N/A

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.1.2.1

BEHAVIOR: Determine pretakeoff data

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity:

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.1.2.2.1

BEHAVIOR: Compute gross weight

---

CONDITION:

Agency: Ops

Information source for: Aircraft configuration

Manuals and pubs: -1

Information source for: Appropriate weights

Activity: Determine takeoff data

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: None

Performance precision: N/A

Computational accuracy: +/- 300 LBS

TASK NO.: 1.1.2.2.2

BEHAVIOR: Compute drag index

-----  
CONDITION:

Agency: Ops

Information source for: Aircraft configuration

Manuals and pubs: -1

Information source for: Drag indexes

Activity: Determine takeoff data

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: None

Systems presenting cues: N/A  
-----

STANDARD:

Authority: None

Performance precision:

Computational accuracy: +/- 5 units

TASK NO.: 1.1.2.2.3

BEHAVIOR: Compute takeoff factor

---

CONDITION:

Agency: Wx

Information source for: Runway temp and pressure altitude

Manuals and pubs: -1

Information source for: Appropriate chart

Activity: Determine takeoff data

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: None

Performance precision: None

Computational accuracy: +/- .2

TASK NO.: 1.1.2.2.4

BEHAVIOR: Compute rotation speed and takeoff speed

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1

Information source for: Takeoff Speed chart

Activity: Determine takeoff data

External environment: N/A

Aids: None

Product of previous task: Compute gross weight

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -1 Takeoff Speed chart

Performance precision:

Computational accuracy: +/- 5 knots

TASK NO.: 1.1.2.2.5

BEHAVIOR: Compute takeoff and landing crosswind components

---

CONDITION:

Agency: Wx

Information source for: Winds at takeoff time

Manuals and pubs: -1

Information source for: Takeoff and Landing Crosswing Limits chart,  
and actual crosswind limit value

Activity: Determine takeoff data

External environment: N/A

Aids: None

Product of previous task: Collect operations data (active runway)

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: None

Performance precision:

Computational accuracy: +/- 2 knots

TASK NO.: 1.1.2.2.6

BEHAVIOR: Compute takeoff roll (ground run distance)

-----  
CONDITION:

Agency: Ops

Information source for: Runway slope

Manuals and pubs: -1

Information source for: Chart

Activity: Determine takeoff data

External environment: N/A

Aids: None

Product of previous task: Compute gross weight; compute drag index;  
compute takeoff and landing crosswind components; compute takeoff  
factor

Initiation cues: None

Systems presenting cues: N/A

-----  
STANDARD:

Authority: Takeoff Ground Run Distance chart

Performance precision:

Computational accuracy: +/- 200 FT

TASK NO.: 1.1.2.2.7

BEHAVIOR: Compute acceleration check speed

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1

Information source for: Acceleration Check Speed chart

Activity: Determine takeoff data

External environment: N/A

Aids: None

Product of previous task: Compute gross weight; compute drag index;  
compute takeoff factor; compute takeoff and landing crosswind  
components; collect Ops data (runway slope)

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -1 Acceleration Check Speed chart

Performance precision:

Computational accuracy: +/- 5 knots

TASK NO.: 1.1.2.2.8

BEHAVIOR: Compute maximum abort speed and maximum brake speed for MIL  
or MAX power takeoffs

---

CONDITION:

Agency: Ops

Information source for: Runway length, runway slope

Manuals and pubs: -1

Information source for: Maximum Abort Speed (Military Thrust  
Takeoff) and (Maximum A/B Thrust Takeoff) charts

Activity: Determine takeoff data

External environment: N/A

Aids: None

Product of previous task: Compute gross weight; compute takeoff  
factor; compute takeoff and landing crosswind components; compute drag  
index

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: Maximum Abort Speed charts

Performance precision:

Computational accuracy: +/- 5 knots

TASK NO.: 1.1.2.2.9

BEHAVIOR: Compute effect of runway condition on maximum abort speed

---

CONDITION:

Agency: Wx

Information source for: RCR

Manuals and pubs: -1

Information source for: Chart

Activity: Determine takeoff data

External environment: N/A

Aids: None

Product of previous task: Compute maximum abort speed

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: TBD

Computational accuracy:

TASK NO.: 1.1.2.3.1

BEHAVIOR: Calculate taxi, takeoff, and climbout fuel, time, and distance for MIL/MAX power thrust

-----  
CONDITION:

Agency: Wx, Ops

Information source for: Takeoff temperature, taxi distance, runway elevation

Manuals and pubs: -1

Information source for: Climbout Fuel, Time, Distance charts

Activity: Departure data

External environment: N/A

Aids: None

Product of previous task: Compute gross weight; compute drag index

Initiation cues: None

Systems presenting cues: N/A  
-----

STANDARD:

Authority: -1 Climbout Fuel, Time, Distance charts

Performance precision:

Computational accuracy: +/- 50 LBS; +/- 1 MIN; +/-5 NM

**TASK NO.:** 1.1.2.3.2

**BEHAVIOR:** Calculate best cruise altitude and combat, cruise, and service ceiling altitudes

---

**CONDITION:**

**Agency:** None

**Information source for:** N/A

**Manuals and pubs:** -1

**Information source for:** Appropriate chart

**Activity:** Determine departure data

**External environment:** N/A

**Aids:** None

**Product of previous task:** Collect weather data

**Initiation cues:** None

**Systems presenting cues:** N/A

---

**STANDARD:**

**Authority:** -1

**Performance precision:** N/A

**Computational accuracy:** TBD

TASK NO.: 1.1.2.3.3

BEHAVIOR: Compute military thrust climb performance data

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1

Information source for: Appropriate chart

Activity: Determine departure data

External environment: N/A

Aids: None

Product of previous task: Compute drag index

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: N/A

Computational accuracy: TBD

TASK NO.: 1.1.2.3.4

BEHAVIOR: Compute maximum A/B climb performance data

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1

Information source for: Appropriate chart

Activity: Determine departure data

External environment: N/A

Aids: None

Product of previous task: Drag index

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: N/A

Computational accuracy: TBD

TASK NO.: 1.1.2.4.9

BEHAVIOR: Compute aircraft specific range

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1

Information source for: Appropriate chart

Activity: Determine enroute data

External environment: N/A

Aids: None

Product of previous task: Compute gross weight

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: N/A

Computational accuracy: TBD

TASK NO.: 1.1.2.4.10

BEHAVIOR: Compute aircraft fuel flow

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1

Information source for: Appropriate charts

Activity: Determine enroute data

External environment: N/A

Aids: None

Product of previous task:

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: N/A

Computational accuracy: TBD

TASK NO.: 1.1.2.4.11

BEHAVIOR: Compute aircraft optimum cruise-climb performance data from  
Optimum Cruise Summary chart

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1

Information source for: Appropriate chart

Activity: Determine enroute data

External environment: N/A

Aids: None

Product of previous task: Compute gross weight; compute drag index

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: N/A

Computational accuracy: TBD

TASK NO.: 1.1.2.4.12

BEHAVIOR: Plan an ingress profile for the mission

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity:

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.1.2.4.12.1

BEHAVIOR: Identify potential enemy threats enroute

---

CONDITION:

Agency: Intel

Information source for: Photos, descriptions, predictated locations

Manuals and pubs:

Information source for:

Activity: Determine ingress profile

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority: None

Performance precision: 100%

Computational accuracy: N/A

TASK NO.: 1.1.2.4.12.2

BEHAVIOR: Determine best aircraft defense against each potential enemy threat

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1, -34, 3-1, FWS texts

Information source for: Aircraft flight characteristics and weapon capability; tactics

Activity: Determine ingress profile

External environment: N/A

Aids: None

Product of previous task:

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: None

Performance precision: 100%

Computational accuracy: N/A

TASK NO.: 1.1.2.4.12.3

BEHAVIOR: Plan passive and active defensive profiles

---

CONDITION:

Agency: Intel

Information source for: Description of enemy capabilities/posture

Manuals and pubs: 3-1, FWS texts, -34, -1

Information source for: Tactics against selected threats

Activity: Determine ingress profile

External environment: N/A

Aids: None

Product of previous task: Determine potential enemy threats enroute;  
determine aircraft defensive capabilities against selected threats

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: None

Performance precision:

Computational accuracy: N/A

TASK NO.: 1.1.2.4.13

BEHAVIOR: Plan altitude and airspeed profile as well as navigation route

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: None

Information source for: N/A

Activity: Determine enroute data

External environment: N/A

Aids: Dividers, planning key, appropriate maps and charts

Product of previous task: Collect intelligence data (enemy order of battle, safe areas, target attack restrictions); collect weather data (winds, cloud cover, visibility); collect operations data (special operating instructions/restrictions, target location), compute taxi, takeoff and climbout, fuel, time and distance

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: 60-2; AFR 60-16; AFM 3-1

Performance precision: N/A

Computational accuracy: N/A

TASK NO.: 1.1.2.4.14

BEHAVIOR: Select initial point

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity: Determine enroute data

External environment: N/A

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.1.2.4.15

BEHAVIOR: Select offset aim points

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity: Determine enroute data

External environment: N/A

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.1.2.4

BEHAVIOR: Determine enroute data

-----  
CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity:

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

-----  
STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.1.2.4.1

BEHAVIOR: Compute optimum Mach/constant altitude cruise: Mach number, true airspeed, groundspeed, and time required to cruise a given distance

---

CONDITION:

Agency: Wx

Information source for: Winds and temperature enroute

Manuals and pubs: -1

Information source for: Constant Altitude Cruise - Mach, Speed, Time chart

Activity: Determine enroute data

External environment: N/A

Aids: None

Product of previous task: Compute gross weight; compute drag index; determine navigation route (total distance)/altitude profile

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -1 Constant Altitude Cruise - Mach, Speed, Time chart (Sheet 1)

Performance precision:

Computational accuracy: +/- 20 knots and +/- 5 MIN, .01 IMN

TASK NO.: 1.1.2.4.2

BEHAVIOR: Compute optimum Mach/constant altitude cruise: specific range, fuel flow, and fuel required to cruise a specified time

---

CONDITION:

Agency: Ops

Information source for: Desired cruise altitude, range

Manuals and pubs:

Information source for:

Activity: Determine enroute data

External environment:

Aids:

Product of previous task: Compute gross weight; compute drag index; determine optimum Mach/constant altitude airspeed and time

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority: -1 Constant Altitude Cruise - Mach, Speed and Time chart, Sheet 2 (classified)

Performance precision:

Computational accuracy:

TASK NO.: 1.1.2.4.3

BEHAVIOR: Compute altitude factor

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1

Information source for: Appropriate chart

Activity: Determine enroute data

External environment: N/A

Aids: None

Product of previous task: Compute gross weight

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: None

Computational accuracy: +/- .2

TASK NO.: 1.1.2.4.4

BEHAVIOR: Convert altitude factor into altitude

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1

Information source for: Appropriate chart

Activity: Determine enroute data

External environment: N/A

Aids: None

Product of previous task: Compute gross weight

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: N/A

Computational accuracy: +/- 1,000 FT

TASK NO.: 1.1.2.4.5

BEHAVIOR: Compute optimum Mach/optimum altitude cruise data from  
Subsonic Cruise charts

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1

Information source for: Appropriate chart

Activity: Determine enroute data

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: N/A

Computational accuracy: TBD

**TASK NO.:** 1.1.2.4.6

**BEHAVIOR:** Compute optimum Mach/constant altitude cruise data from  
Subsonic Cruise charts

---

**CONDITION:**

**Agency:** None

**Information source for:** N/A

**Manuals and pubs:** -1

**Information source for:** Appropriate chart

**Activity:** Determine enroute data

**External environment:** N/A

**Aids:** None

**Product of previous task:** None

**Initiation cues:** None

**Systems presenting cues:** N/A

---

**STANDARD:**

**Authority:** -1

**Performance precision:** TBD

**Computational accuracy:** TBD

TASK NO.: 1.1.2.4.7

BEHAVIOR: Compute constant Mach/constant altitude cruise data from  
Subsonic Cruise charts

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1

Information source for: Appropriate chart

Activity: Determine enroute data

External environment: N/A

Aids: None

Product of previous task: Compute drag index; compute altitude factor

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: N/A

Computational accuracy: TBD

TASK NO.: 1.1.2.4.8

BEHAVIOR: Compute constant Mach/optimum altitude cruise data from  
Subsonic Cruise charts

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1

Information source for: Appropriate chart

Activity: Determine enroute data

External environment: N/A

Aids: None

Product of previous task: Compute drag index

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: N/A

Computational accuracy: TBD

TASK NO.: 1.1.2.4.16

BEHAVIOR: Calculate offset data for offset aim point

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity:

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.1.2.4.17

BEHAVIOR: Select enroute navigation modes

-----  
CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: FWS texts, F-16 Phase Manual, 3-1

Information source for: Optimum profile

Activity: Determine enroute data

External environment: N/A

Aids: Appropriate maps

Product of previous task: Determine navigation route (available navigation aids)

Initiation cues: None

Systems presenting cues: N/A

-----  
STANDARD:

Authority: TBD

Performance precision: N/A

Computational accuracy: TBD

TASK NO.: 1.1.2.4.18

BEHAVIOR: Prepare radar predictions

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity: Determine enroute data

External environment: N/A

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.1.2.4.19

BEHAVIOR: Prepare enroute map

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: AFR 55-25, Vol. I

Information source for: Approved route map annotations

Activity: Determine enroute data

External environment: N/A

Aids: Plotters, straight edge, distance measuring device, appropriate maps

Product of previous task: Determine navigation route; calculate offset aim points; select navigation modes to be used; prepare radar predictions

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority: AFR 55-25, Vol. I

Performance precision: N/A

Computational accuracy: N/A

TASK NO.: 1.1.2.4.20

BEHAVIOR: Determine divert route, fuel, time, and distance (E)

---

CONDITION:

Agency: Ops, Wx

Information source for: Alternate airfields/status/wx; planned fuel  
at home base

Manuals and pubs: -1

Information source for: Appropriate chart

Activity: Determine enroute data

External environment: N/A

Aids: None

Product of previous task: Compute drag index (drag indices of  
retained stores)

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: N/A

Computational accuracy: 100%

TASK NO.: 1.1.2.5

BEHAVIOR: Accomplish air-to-air refueling planning

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: Air refueling manual

Information source for: Refueling planning

Activity: Determine mission data

External environment: N/A

Aids: None

Product of previous task: Collect operations data (air refueling data)

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: Refueling Manual 1C-1-30

Performance precision: IAW manual

Computational accuracy: N/A

TASK NO.: 1.1.2.6.1.1

BEHAVIOR: Plan the delivery profile

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: FWS texts, 3-1

Information source for: Suggested profiles

Activity: Determine air-to-surface combat data

External environment: N/A

Aids: None

Product of previous task: Evaluate target characteristics; collect operations data (Ops restrictions); collect weather data; evaluate threat data in target area; select dive angle; select target attack heading; match ordnance characteristics with specific mission requirements

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: TBD

Performance precision: TBD

Computational accuracy: TBD

TASK NO.: 1.1.2.6.1.1.1

BEHAVIOR: Determine primary and alternate delivery modes

-----  
CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: 3-1, JMEM, -34

Information source for: Tactical considerations, weapons effects,  
delivery profile restrictions

Activity: Determine delivery profile

External environment: N/A

Aids: None

Product of previous task: Collect intelligence data (enemy  
disposition in target area); collect weather data (target weather);  
collect operations data (target restrictions); determine ordnance  
characteristics; evaluate target characteristics; determine  
navigation route (run-in profile)

Initiation cues: None

Systems presenting cues: N/A

-----  
STANDARD:

Authority: TBD

Performance precision: TBD

Computational accuracy: N/A

TASK NO.: 1.1.2.6.1.1.2

BEHAVIOR: Evaluate target characteristics

-----  
CONDITION:

Agency: Intel

Information source for: NONE

Manuals and pubs:

Information source for:

Activity:

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues: N/A

-----  
STANDARD:

Authority: None

Performance precision: N/A

Computational accuracy: N/A

TASK NO.: 1.1.2.6.1.1.3

BEHAVIOR: Evaluate threat data in target area

-----  
CONDITION:

Agency: Intel

Information source for: Probable threat and its characteristics

Manuals and pubs:

Information source for:

Activity: Determine delivery profile

External environment: N/A

Aids: None

Product of previous task: Collect intelligence data (enemy strengths, dispositions, capabilities)

Initiation cues: None

Systems presenting cues: N/A

-----  
STANDARD:

Authority: None

Performance precision: N/A

Computational accuracy: N/A

TASK NO.: 1.1.2.6.1.1.4

BEHAVIOR: Match ordnance characteristics with specific mission requirements

---

CONDITION:

Agency:

Information source for:

Manuals and pubs: -34, 3-1, JMEM

Information source for: Ordnance characteristics

Activity: Determine delivery profile

External environment: N/A

Aids: None

Product of previous task: Collect operations data (weapon load, mission requirements)

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: None

Performance precision:

Computational accuracy: N/A

TASK NO.: 1.1.2.6.1.1.5

BEHAVIOR: Select ordnance

---

CONDITION:

Agency: Ops

Information source for: Available ordnance

Manuals and pubs: 3-1, JMEM

Information source for: Tactical considerations, weapons effects

Activity: Determine delivery profile

External environment: None

Aids: None

Product of previous task: Evaluate target characteristics; evaluate threat data in target area; match ordnance characteristics with specific mission requirements

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: None

Performance precision:

Computational accuracy: None

TASK NO.: 1.1.2.6.1.1.6.1

BEHAVIOR: Compute minimum safe separation parameters

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34

Information source for: Appropriate chart

Activity: Determine ordnance data

External environment: N/A

Aids: None

Product of previous task: Select ordnance (ordnance); collect operations data (Ops restrictions)

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -34

Performance precision: N/A

Computational accuracy: 100%

TASK NO.: 1.1.2.6.1.1.6.2

BEHAVIOR: Compute frag patterns

-----  
CONDITION:

Agency:

Information source for:

Manuals and pubs: -34

Information source for: Frag pattern chart

Activity: Determine ordnance data

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: None

Systems presenting cues: N/A  
-----

STANDARD:

Authority: -34

Performance precision: N/A

Computational accuracy: +/- 250 FT

TASK NO.: 1.1.2.6.1.1.6.3

BEHAVIOR: Determine fuse function times required

---

CONDITION:

Agency:

Information source for:

Manuals and pubs: -34, JMEM

Information source for: Appropriate charts, fusing recommendations  
for sample targets

Activity: Determine ordnance data

External environment: N/A

Aids: None

Product of previous task: Determine ordnance characteristics;  
evaluate target characteristics

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: JMEM

Performance precision:

Computational accuracy:

TASK NO.: 1.1.2.6.1.1.6.4

BEHAVIOR: Determine fuse arming times required

-----  
CONDITION:

Agency:

Information source for:

Manuals and pubs: -34

Information source for: Fuse arming selections and escape distances

Activity: Determine ordnance data

External environment: N/A

Aids: None

Product of previous task: Determine delivery profile (post release escape profile)

Initiation cues: None

Systems presenting cues: N/A  
-----

STANDARD:

Authority: -34

Performance precision:

Computational accuracy: +/- .5 SEC

TASK NO.: 1.1.2.6.1.1.7

BEHAVIOR: Select roll-in altitude profile

-----  
CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: FWS texts

Information source for: Tactics, weapons delivery techniques

Activity: Determine delivery profile

External environment: N/A

Aids: None

Product of previous task: Select release pressure altitude and convert to indicated; determine run-in altitude; evaluate threat data in target area

Initiation cues: None

Systems presenting cues: N/A  
-----

STANDARD:

Authority: FWS text

Performance precision: TBD

Computational accuracy: TBD

TASK NO.: 1.1.2.6.1.1.8

BEHAVIOR: Select target attack heading

-----  
CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: FWS texts

Information source for: Target attack tactics

Activity: Determine delivery profile

External environment: N/A

Aids: None

Product of previous task: Collect operations data (target restrictions in frag order); collect weather data (cloud, visibility, sun position, moon illumination, etc); evaluate target characteristics; evaluate threat data in target area

Initiation cues: None

Systems presenting cues: N/A

-----  
STANDARD:

Authority: FWS

Performance precision: TBD

Computational accuracy: TBD

TASK NO.: 1.1.2.6.1.1.9

BEHAVIOR: Select dive angle

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: FWS text, -34

Information source for: Suggested dive angles, minimum/maximum dive angles

Activity: Determine delivery profile

External environment: N/A

Aids: None

Product of previous task: Select ordnance; match ordnance characteristics with specific mission requirements; evaluate threat data in target area; collect weather data

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: FWS text, -34

Performance precision: TBD

Computational accuracy: TBD

TASK NO.: 1.1.2.6.1.1.10

BEHAVIOR: Select release pressure altitude and convert to indicated

---

CONDITION:

Agency: Wx

Information source for: Correction factor to obtain pressure altitude

Manuals and pubs: -34, 3-1, FWS texts

Information source for: Appropriate chart

Activity: Determine delivery profile

External environment: N/A

Aids: None

Product of previous task: Determine frag pattern; determine fusing times; collect intelligence data (target description - altitude)

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -34, 3-1, FWS texts

Performance precision: N/A

Computational accuracy: +/- 100 FT

TASK NO.: 1.1.2.6.1.1.11

BEHAVIOR: Compute altitude loss during recovery

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34-1-2

Information source for: Dive Recovery chart

Activity: Determine delivery profile

External environment: N/A

Aids: None

Product of previous task: Determine delivery profile (altitude lost during bomb train release)

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -34

Performance precision: N/A

Computational accuracy: +/- 50 FT

TASK NO.: 1.1.2.6.1.1.12

BEHAVIOR: Determine release true airspeed and convert to indicated

---

CONDITION:

Agency: Wx

Information source for: Target area winds, temperature, pressure  
altitude

Manuals and pubs: -34

Information source for: Appropriate chart

Activity: Determine delivery profile

External environment: N/A

Aids: None

Product of previous task: Select release altitude

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -34

Performance precision: None

Computational accuracy: +/- 10 knots

TASK NO.: 1.1.2.6.1.1.13

BEHAVIOR: Select number of passes

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: FWS texts, 3-1

Information source for: Tactics

Activity: Determine delivery profile

External environment: N/A

Aids: None

Product of previous task: Determine fuel flow and consumption; select ordnance; evaluate threat data in target area; evaluate target characteristics

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: FWS text

Performance precision: TBD

Computational accuracy: N/A

**TASK NO.:** 1.1.2.6.1.1.14

**BEHAVIOR:** Determine manual delivery data (E)

-----  
**CONDITION:**

**Agency:**

Information source for:

**Manuals and pubs:**

Information source for:

**Activity:**

**External environment:**

**Aids:**

**Product of previous task:**

**Initiation cues:**

Systems presenting cues:

-----  
**STANDARD:**

**Authority:**

**Performance precision:**

**Computational accuracy:**

TASK NO.: 1.1.2.6.1.1.14.1

BEHAVIOR: Determine MIL setting and wind correction (E)

-----  
CONDITION:

Agency: Wx

Information source for: Release pressure altitude

Manuals and pubs: -34-1-1, -34-1-2

Information source for: Mil setting chart

Activity: Determine manual delivery data

External environment: N/A

Aids: None

Product of previous task: Determine fuse function time (for air function munition); select release airspeed (TAS); select release altitude (AGL); select dive angle; calculate angle of attack mils

Initiation cues: None

Systems presenting cues: N/A  
-----

STANDARD:

Authority: -34-1-1, -34-1-2

Performance precision:

Computational accuracy: +/-5 mils

**TASK NO.:** 1.1.2.6.1.1.14.2

**BEHAVIOR:** Determine release range (E)

-----  
**CONDITION:**

**Agency:**

Information source for:

**Manuals and pubs:** -34

Information source for: Mil setting chart

**Activity:** Determine manual delivery data

**External environment:** N/A

**Aids:** None

**Product of previous task:** Select dive angle; select delivery altitude profile; select airspeed (release airspeed)

**Initiation cues:**

Systems presenting cues:  
-----

**STANDARD:**

**Authority:** -34

**Performance precision:** N/A

**Computational accuracy:** +/-50 FT

TASK NO.: 1.1.2.6.1.1.14.3

BEHAVIOR: Determine aim off distance (E)

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34-1-2

Information source for: Aim Off Distance chart

Activity: Determine manual delivery data

External environment: N/A

Aids: None

Product of previous task: Calculate MIL setting, wind correction and release range

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -34-1-2

Performance precision: N/A

Computational accuracy: +/- 100 FT

TASK NO.: 1.1.2.6.1.1.14.4

BEHAVIOR: Compute impact interval in milliseconds for given stick length (E)

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34-1-2

Information source for: Release Pulse Interval chart

Activity: Determine manual delivery data

External environment: N/A

Aids: None

Product of previous task: Select impact interval and stick length in feet; compute groundspeed from true airspeed (for any dive angle)

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -34

Performance precision: N/A

Computational accuracy: TBD

TASK NO.: 1.1.2.6.1.1.14.5

BEHAVIOR: Calculate crosswind correction (E)

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34-1-2

Information source for: Appropriate charts

Activity: Determine manual delivery data

External environment: N/A

Aids: None

Product of previous task: Calculate MIL setting

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -34-1-2

Performance precision: N/A

Computational accuracy: +/- 5 FT

TASK NO.: 1.1.2.6.1.1.14.6

BEHAVIOR: Calculate initial pipper placement (IPP) (E)

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34

Information source for: Appropriate chart

Activity: Determine manual delivery data

External environment: N/A

Aids: None

Product of previous task:

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -34

Performance precision:

Computational accuracy: +/- 5 MILS

TASK NO.: 1.1.2.6.1.1.14.7

BEHAVIOR: Calculate RAP (E)

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: None

Information source for: N/A

Activity: Determine manual delivery data

External environment: N/A

Aids: None

Product of previous task: Calculate crosswind correction (in FT/KT);  
collect weather data)

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority:

Performance precision: N/A

Computational accuracy: Within 20 FT

TASK NO.: 1.1.2.6.1.2

BEHAVIOR: Plan egress profile (altitude, airspeed, and heading) from  
the immediate target area

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: FWS text

Information source for: Tactics

Activity: Determine air-to-surface combat data

External environment: N/A

Aids: None

Product of previous task: Calculate altitude loss during dive  
recovery; calculate release pressure altitude; evaluate threat data in  
target area; collect intelligence data (enemy threat affecting  
mission); determine navigation route (total fuel used)

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: FWS

Performance precision: TBD

Computational accuracy: TBD

**TASK NO.:** 1.1.2.6.1.3

**BEHAVIOR:** Accomplish premission planning for specific A-S missions

---

**CONDITION:**

**Agency:**

Information source for:

**Manuals and pubs:**

Information source for:

**Activity:**

**External environment:**

**Aids:**

**Product of previous task:**

**Initiation cues:**

Systems presenting cues:

---

**STANDARD:**

**Authority:**

**Performance precision:**

**Computational accuracy:**

**TASK NO.:** 1.1.2.6.1.3.1

**BEHAVIOR:** Plan for SCAR missions as strike aircraft

---

**CONDITION:**

**Agency:** SCAR pilot (leader)

**Information source for:** Mission scenario, command and control procedures

**Manuals and pubs:** 3-1

**Information source for:** Tactics

**Activity:** Accomplish premission planning for specific A-S missions

**External environment:** N/A

**Aids:** None

**Product of previous task:** Collect operations data; collect intelligence data; collect weather data; evaluate threat data in target area; evaluate target characteristics (if target or target type is known)

**Initiation cues:** None

**Systems presenting cues:** N/A

---

**STANDARD:**

**Authority:** 3-1

**Performance precision:** TBD

**Computational accuracy:** N/A

**TASK NO.:** 1.1.2.6.1.3.2

**BEHAVIOR:** Plan for close air support missions

---

**CONDITION:**

**Agency:** Ops

**Information source for:** FAC info

**Manuals and pubs:** 3-1

**Information source for:** Tactics

**Activity:** Accomplish premission planning for specific A-S missions

**External environment:** N/A

**Aids:** None

**Product of previous task:** Collect intelligence data; collect operations data; collect weather data

**Initiation cues:** None

**Systems presenting cues:** N/A

---

**STANDARD:**

**Authority:** 3-1

**Performance precision:** TBD

**Computational accuracy:** N/A

**TASK NO.:** 1.1.2.6.1.3.3

**BEHAVIOR:** Plan for Hunter-Killer missions

---

**CONDITION:**

**Agency:**

**Information source for:**

**Manuals and pubs:**

**Information source for:**

**Activity:** Accomplish premission planning for specific A-S missions

**External environment:**

**Aids:**

**Product of previous task:**

**Initiation cues:**

**Systems presenting cues:**

---

**STANDARD:**

**Authority:**

**Performance precision:**

**Computational accuracy:**

TASK NO.: 1.1.2.6.1.3.4

BEHAVIOR: Plan for air-to-surface escort missions

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity: Accomplish premission planning for specific A-S missions

External environment: N/A

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

**TASK NO.:** 1.1.2.6.1.3.5

**BEHAVIOR:** Plan for day interdiction missions

-----  
**CONDITION:**

**Agency:**

Information source for:

**Manuals and pubs:**

Information source for:

**Activity:** Accomplish premission planning for specific A-S mission

**External environment:** N/A

**Aids:**

**Product of previous task:**

**Initiation cues:**

Systems presenting cues:

-----  
**STANDARD:**

**Authority:**

**Performance precision:**

**Computational accuracy:**

TASK NO.: 1.1.2.6.1.3.6

BEHAVIOR: Plan for armed recce missions

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: 3-1

Information source for: Tactics

Activity: Accomplish premission planning for specific A-S missions

External environment: N/A

Aids: None

Product of previous task: Collect operations data; collect intelligence data; collect weather data

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: 3-1

Performance precision: TBD

Computational accuracy: N/A

**TASK NO.:** 1.1.2.6.1.3.7

**BEHAVIOR:** Plan for night air-to-surface missions

---

**CONDITION:**

**Agency:**

Information source for:

**Manuals and pubs:**

Information source for:

**Activity:** Accomplish premission planning for specific A-S missions

**External environment:** N/A

**Aids:**

**Product of previous task:**

**Initiation cues:**

Systems presenting cues:

---

**STANDARD:**

**Authority:**

**Performance precision:**

**Computational accuracy:**

**TASK NO.:** 1.1.2.6.1.3.8

**BEHAVIOR:** Plan for conventional or tactical range mission (T)

---

**CONDITION:**

**Agency:**

Information source for:

**Manuals and pubs:**

Information source for:

**Activity:** Accomplish premission planning for specific air-to-surface missions

**External environment:** N/A

**Aids:**

**Product of previous task:**

**Initiation cues:**

Systems presenting cues:

---

**STANDARD:**

**Authority:**

**Performance precision:**

**Computational accuracy:**

TASK NO.: 1.1.2.6.2

BEHAVIOR: Plan for air-to-air combat missions

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity:

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.1.2.6.2.1

BEHAVIOR: Plan for intercept missions

---

CONDITION:

Agency: GCI

Information source for: Specific mission tactics

Manuals and pubs: FWS texts, 3-1

Information source for: Intercept tactics

Activity: Determine air-to-air tactics

External environment: N/A

Aids: None

Product of previous task: Collect mission data from agencies (Ops restrictions, intercept instructions, friendly support, air refueling, expected threat, GCI agency frequencies, weather)

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: FWS texts, 3-1

Performance precision: Instructor

Computational accuracy: N/A

**TASK NO.:** 1.1.2.6.2.2

**BEHAVIOR:** Plan for air-to-air escort missions

---

**CONDITION:**

**Agency:** None

**Information source for:** N/A

**Manuals and pubs:** FWS texts, 3-1

**Information source for:** CAP tactics

**Activity:** Determine air-to-air tactics

**External environment:** N/A

**Aids:** None

**Product of previous task:** Collect mission data from agencies (Ops restrictions, escort instructions, friendly support, air refueling support, expected threat, weather data)

**Initiation cues:** None

**Systems presenting cues:** N/A

---

**STANDARD:**

**Authority:** FWS texts, 3-1

**Performance precision:** Instructor judgment

**Computational accuracy:** N/A

TASK NO.: 1.1.2.6.2.3

BEHAVIOR: Plan for CAP missions

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: FWS texts, 3-1

Information source for: CAP tactics

Activity: Determine air-to-air tactics

External environment: N/A

Aids: None

Product of previous task: Collect mission data from agencies (Ops restrictions, CAP instructions, friendly support, air refueling support, expected threat, weather data)

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: FWS texts, 3-1

Performance precision: Instructor judgement

Computational accuracy: N/A

**TASK NO.:** 1.1.2.6.2.4

**BEHAVIOR:** Plan for DART (T)

---

**CONDITION:**

**Agency:**

Information source for:

**Manuals and pubs:**

Information source for:

**Activity:** Determine A-A tactics

**External environment:** N/A

**Aids:**

**Product of previous task:**

**Initiation cues:**

Systems presenting cues:

---

**STANDARD:**

**Authority:**

**Performance precision:**

**Computational accuracy:**

TASK NO.: 1.1.2.6.2.5

BEHAVIOR: Plan for ACBT (T)

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity: Determine A-A tactics

External environment: N/A

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.1.2.6.3

BEHAVIOR: Determine nuclear strike data

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity:

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

**TASK NO.:** 1.1.2.7.1.1

**BEHAVIOR:** Determine enroute radar or STAR descent point (E)

-----  
**CONDITION:**

**Agency:**

Information source for:

**Manuals and pubs:**

Information source for:

**Activity:**

**External environment:**

**Aids:**

**Product of previous task:**

**Initiation cues:**

Systems presenting cues:

-----  
**STANDARD:**

**Authority:**

**Performance precision:**

**Computational accuracy:**

**TASK NO.:** 1.1.2.7.1.3

**BEHAVIOR:** Determine penetration descent point (E)

---

**CONDITION:**

**Agency:**

Information source for:

**Manuals and pubs:**

Information source for:

**Activity:**

**External environment:**

**Aids:**

**Product of previous task:**

**Initiation cues:**

Systems presenting cues:

---

**STANDARD:**

**Authority:**

**Performance precision:**

**Computational accuracy:**

**TASK NO.:** 1.1.2.7.1.4

**BEHAVIOR:** Calculate minimum fuel/maximum range descent point

---

**CONDITION:**

**Agency:**

Information source for:

**Manuals and pubs:**

Information source for:

**Activity:** Determine type of descent

**External environment:** N/A

**Aids:**

**Product of previous task:**

**Initiation cues:**

Systems presenting cues:

---

**STANDARD:**

**Authority:**

**Performance precision:**

**Computational accuracy:**

TASK NO.: 1.1.2.7.2

BEHAVIOR: Calculate the descent fuel requirement

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity: Determine recovery data

External environment: N/A

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

**TASK NO.:** 1.1.2.7.3

**BEHAVIOR:** Plan approach

-----  
**CONDITION:**

**Agency:**

Information source for:

**Manuals and pubs:**

Information source for:

**Activity:**

**External environment:**

**Aids:**

**Product of previous task:**

**Initiation cues:**

Systems presenting cues:

-----  
**STANDARD:**

**Authority:**

**Performance precision:**

**Computational accuracy:**

**TASK NO.:** 1.1.2.7.3.1

**BEHAVIOR:** Compute minimum safe altitude (using FLIP) (E)

-----  
**CONDITION:**

**Agency:**

Information source for:

**Manuals and pubs:**

Information source for:

**Activity:**

**External environment:**

**Aids:**

**Product of previous task:**

**Initiation cues:**

Systems presenting cues:

-----  
**STANDARD:**

**Authority:**

**Performance precision:**

**Computational accuracy:**

TASK NO.: 1.1.2.7.3.2

BEHAVIOR: Select type of approach

---

CONDITION:

Agency: Ops

Information source for: Ops restrictions

Manuals and pubs: 60-16

Information source for: Weather minimums for selected approach

Activity: Determine recovery data

External environment: N/A

Aids: None

Product of previous task: Collect weather data (terminal forecast)

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: TBD

Performance precision: TBD

Computational accuracy: TBD

**TASK NO.:** 1.1.2.7.3.3

**BEHAVIOR:** Determine IFR minimums (E)

---

**CONDITION:**

**Agency:**

Information source for:

**Manuals and pubs:**

Information source for:

**Activity:**

**External environment:**

**Aids:**

**Product of previous task:**

**Initiation cues:**

Systems presenting cues:

---

**STANDARD:**

**Authority:**

**Performance precision:**

**Computational accuracy:**

TASK NO.: 1.1.2.8

BEHAVIOR: Compute landing data for primary and alternate airfields

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1

Information source for: Landing Speed and Short Field Landing Speed charts

Activity: Determine mission data

External environment: N/A

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.1.3

BEHAVIOR: Record data on mission data card

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity:

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.1.5

BEHAVIOR: Perform mission briefing (flight lead)

---

CONDITION:

Agency:

Information source for:

Manuals and pubs: Briefing guides

Information source for:

Activity: Perform premission planning

External environment: N/A

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

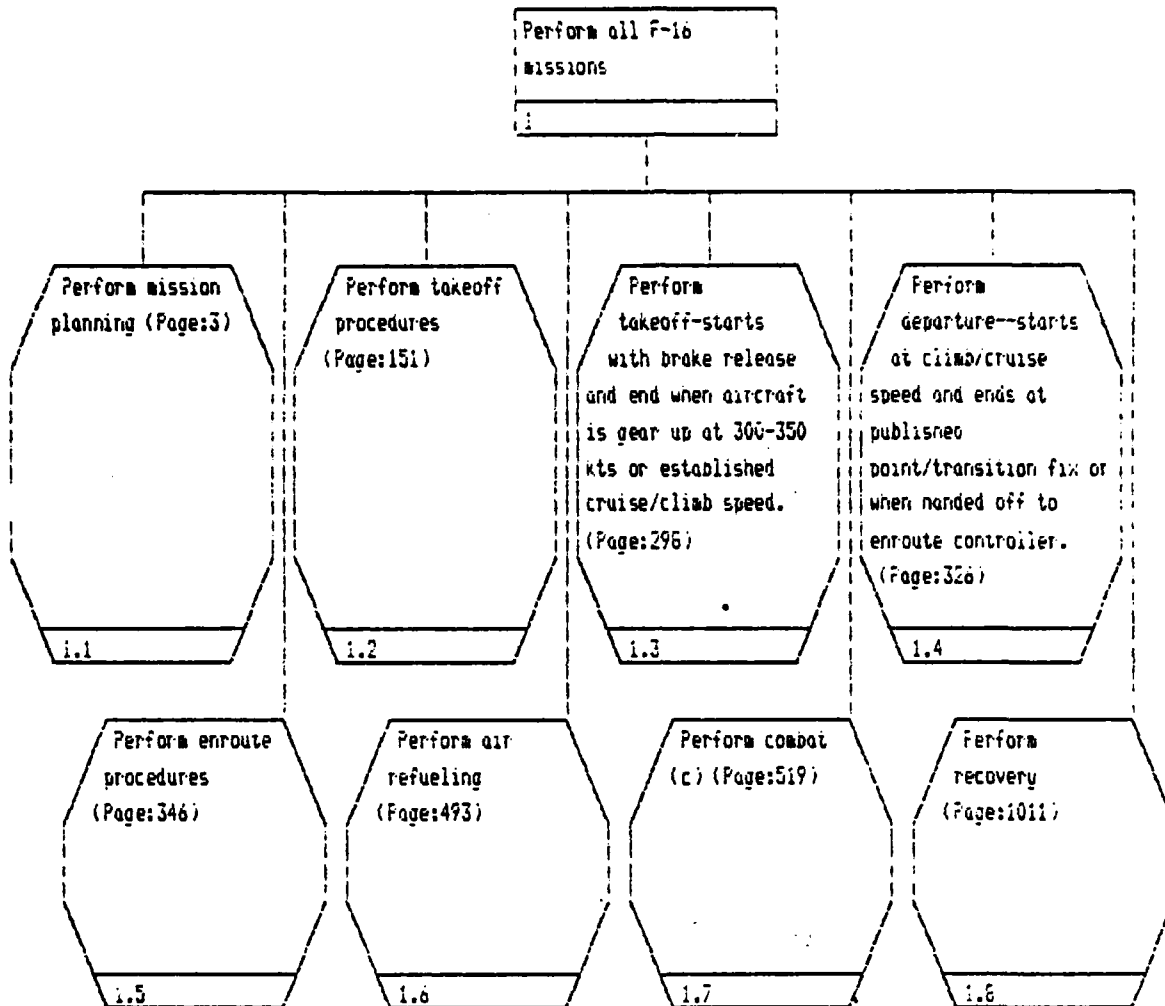
STANDARD:

Authority:

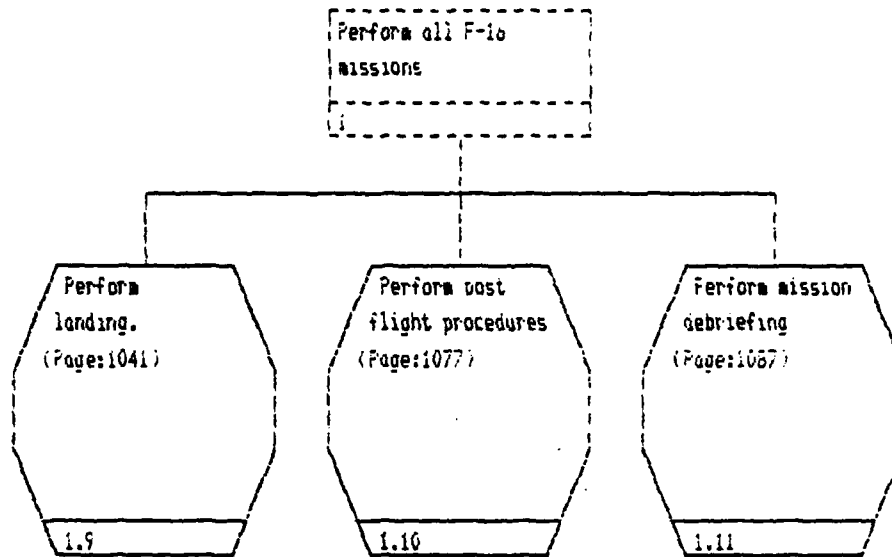
Performance precision:

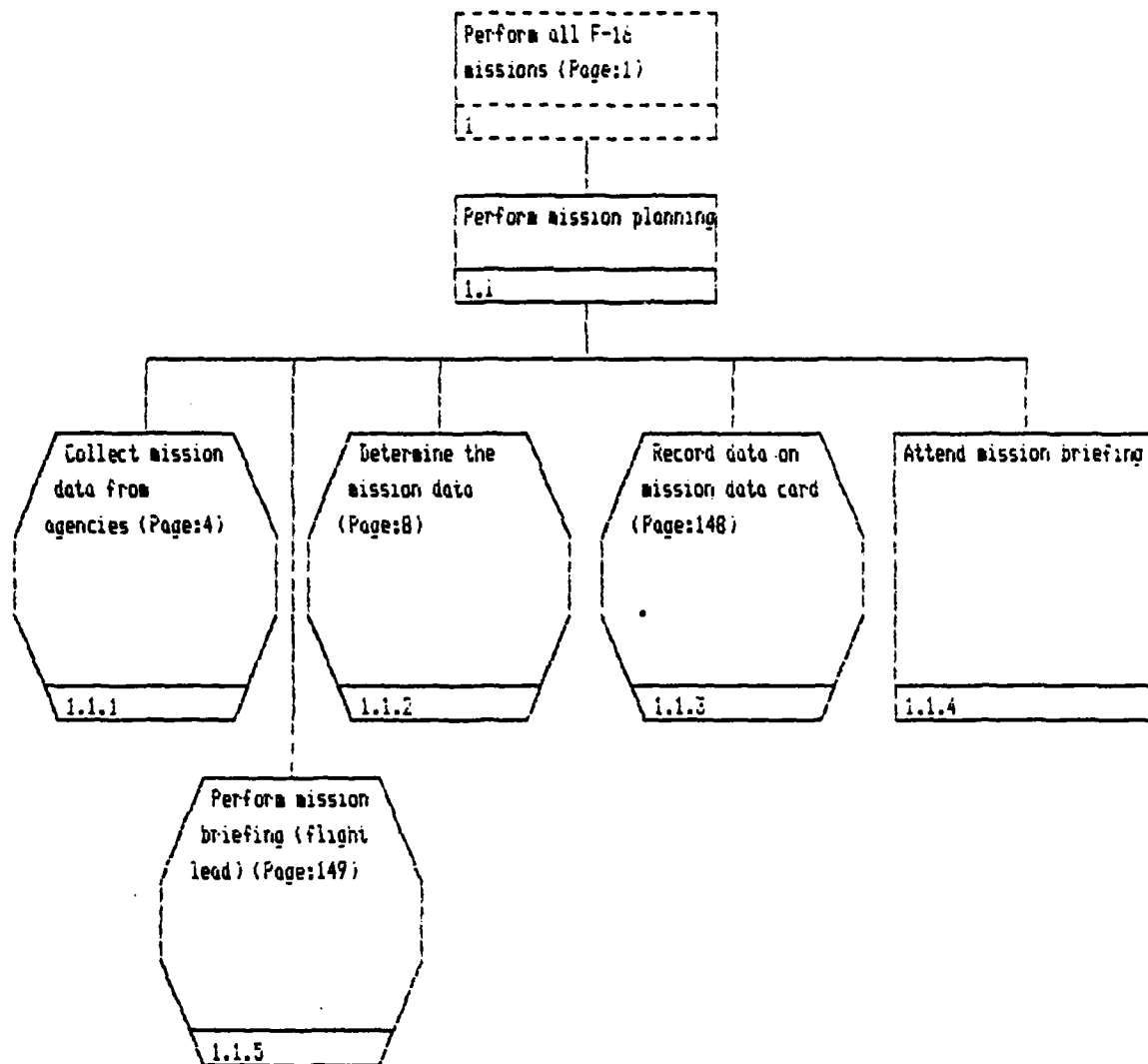
Computational accuracy:

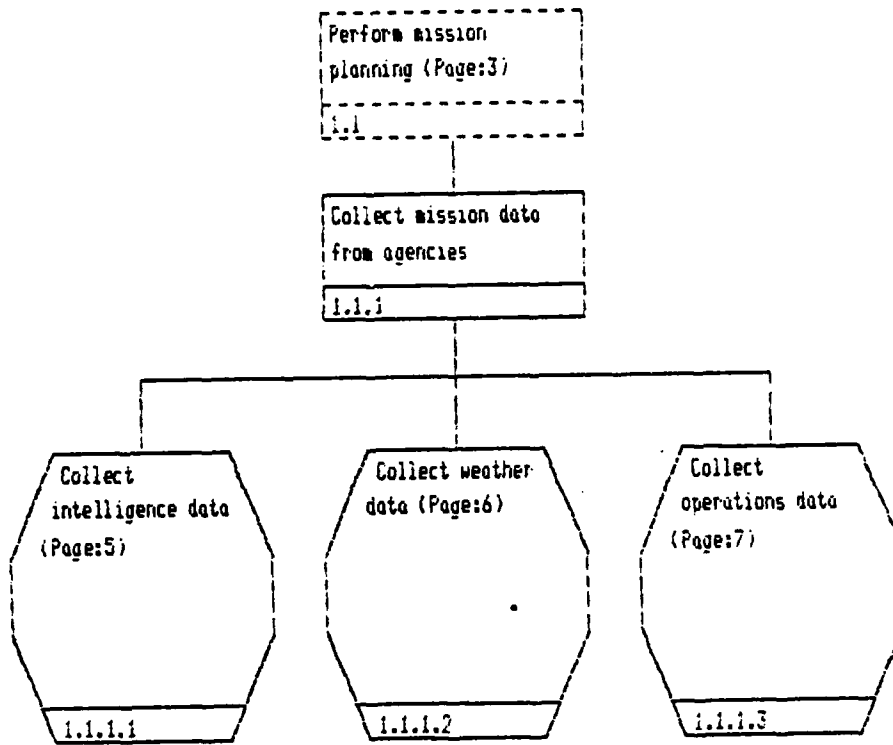
Continued on page: 2



Continued from page: 1







Collect mission data  
from agencies (Page:4)

1.1.1

Collect intelligence  
data

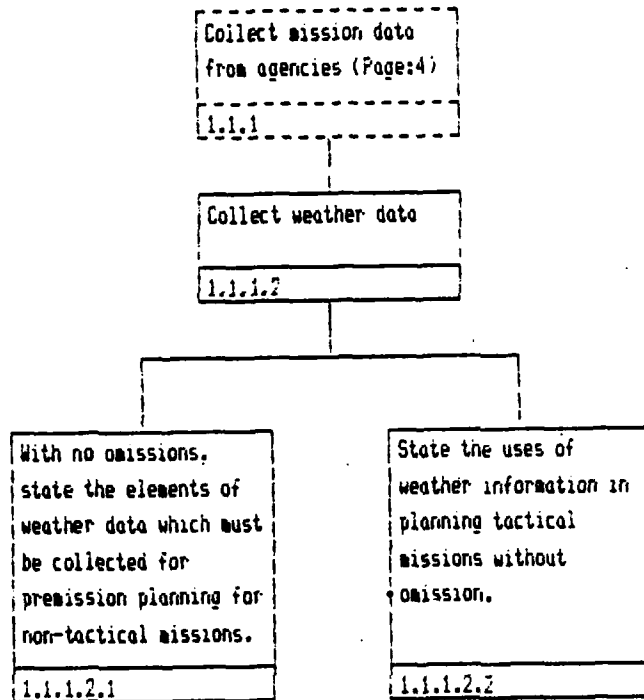
1.1.1.1

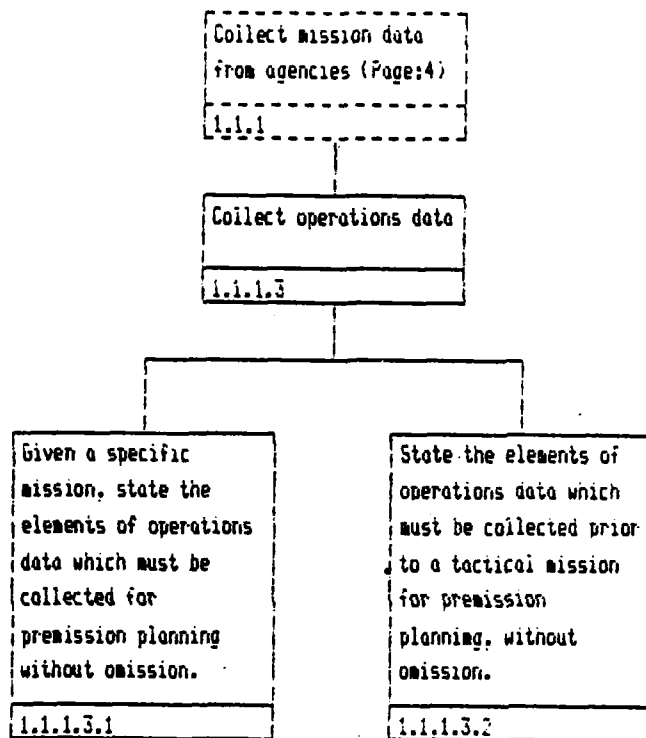
Given a mission, state  
the elements of  
intelligence data which  
must be collected for  
premission planning  
without omission.

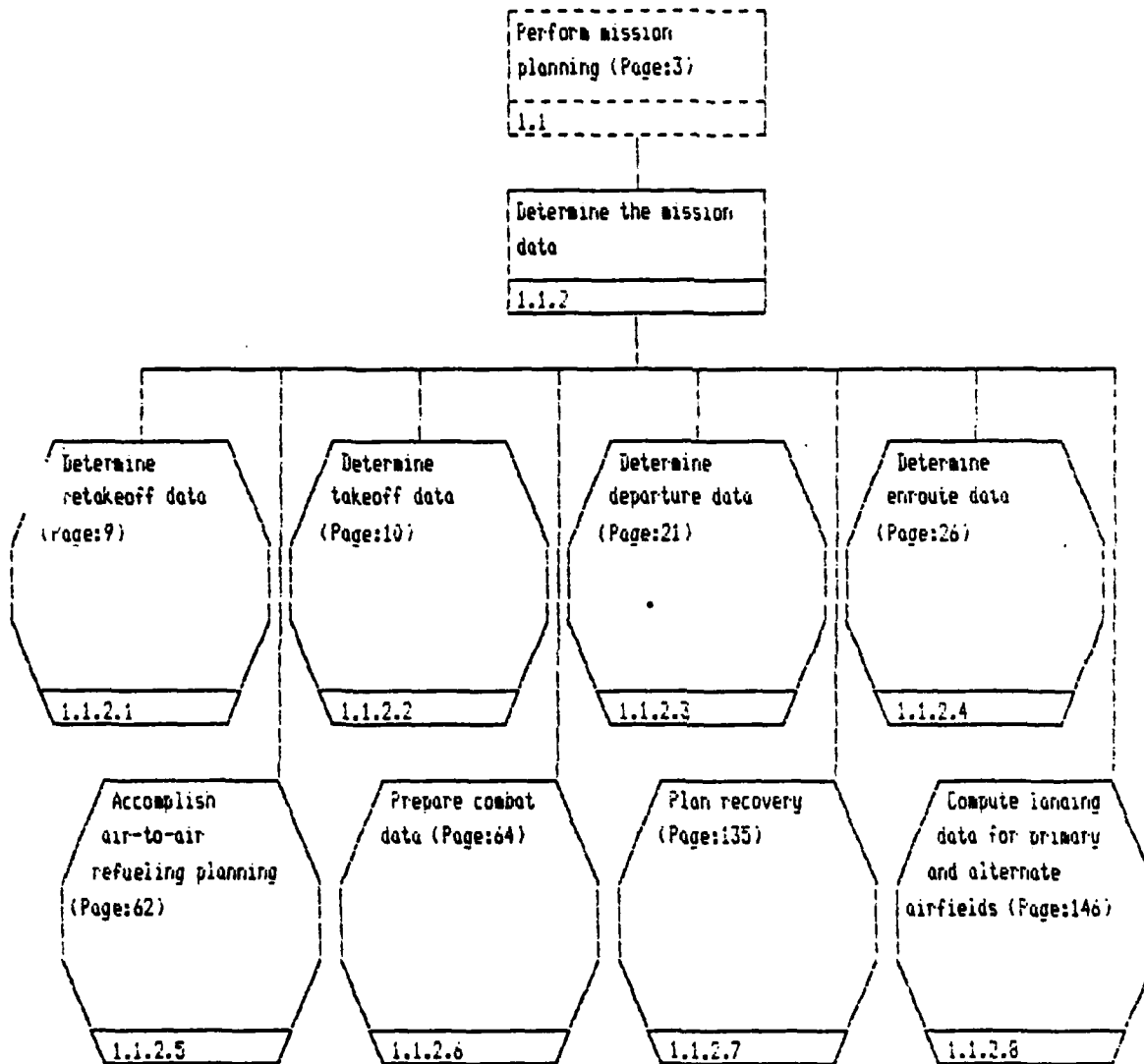
1.1.1.1.1

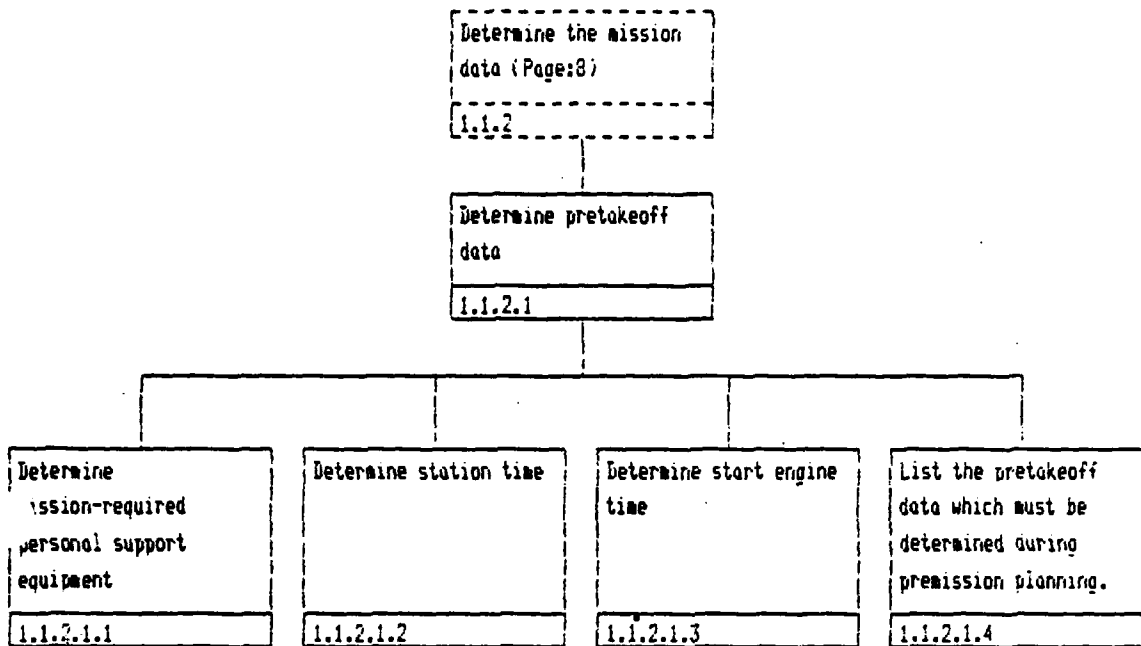
State the definitions  
of standard  
intelligence terms  
without error

1.1.1.1.2

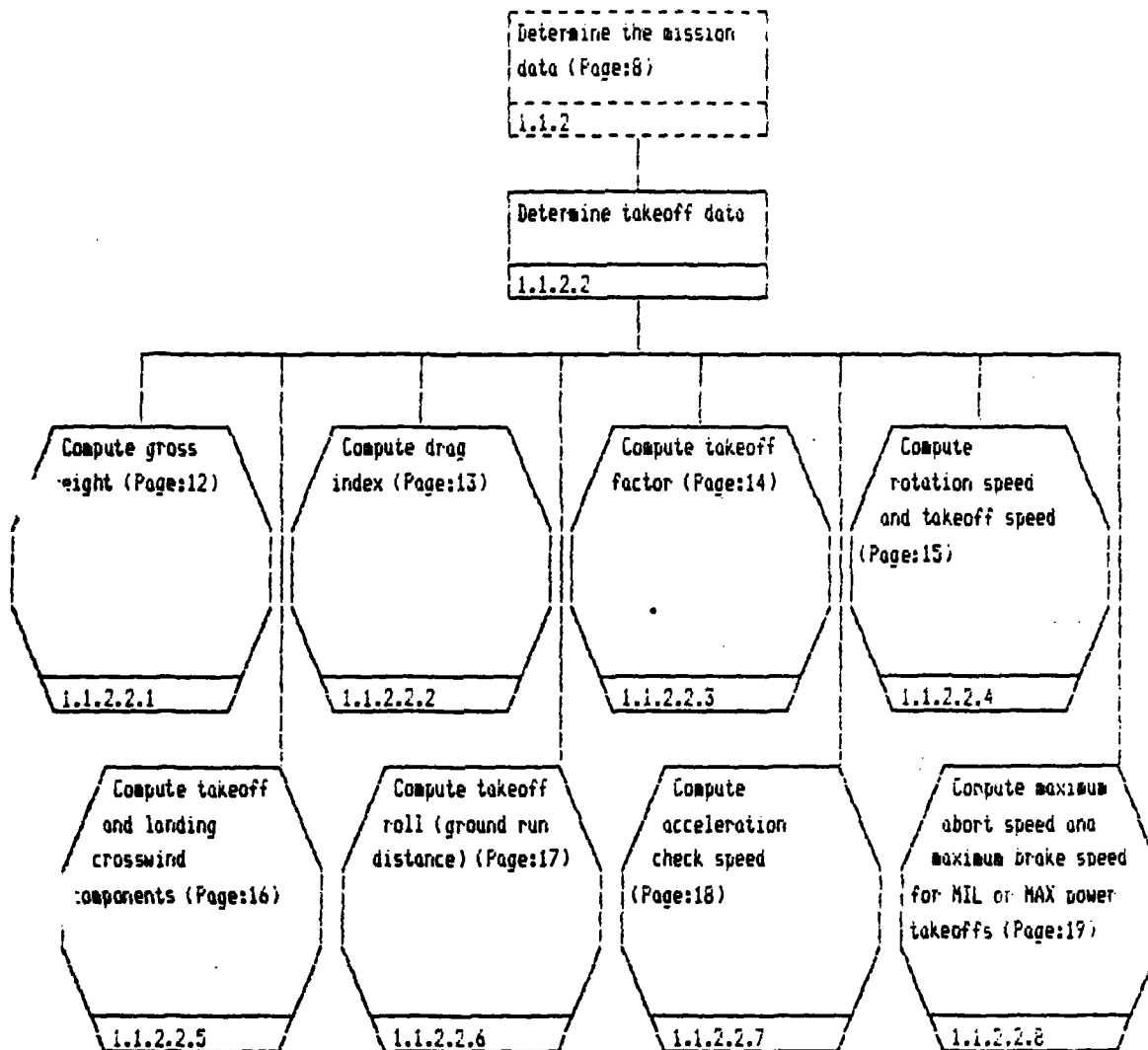




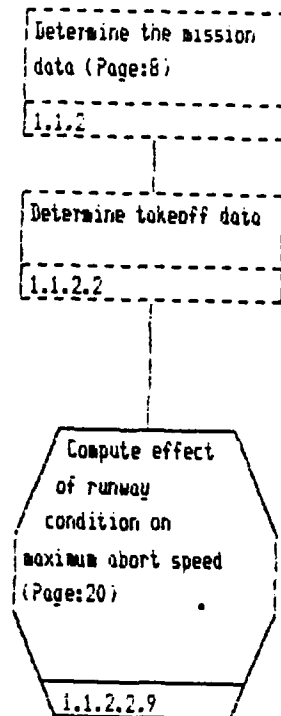




Continues on page: 11



Continued from page: 10



Determine takeoff data  
(Page:10)

1.1.2.2

Compute gross weight

1.1.2.2.1

Given aircraft  
configuration  
information and the  
classified supplement  
to the -1, compute  
gross weight within +/-  
500 pounds.

1.1.2.2.1.1

Determine takeoff data  
(Page:10)

1.1.2.2

Compute drag index

1.1.2.2.2

Given aircraft  
configuration  
information and the  
classified supplement  
to the -1, determine  
drag index without  
error.

1.1.2.2.2.1

Determine takeoff data  
(Page:10)

1.1.2.2

Compute takeoff factor

1.1.2.2.3

Given environmental  
data and aircraft  
configuration, compute  
takeoff factor within  
+/- .2 units.

1.1.2.2.3.1

Determine takeoff data  
(Page:10)

1.1.2.2

Compute rotation speed  
and takeoff speed

1.1.2.2.4

Given aircraft  
configuration  
information, center of  
gravity and gross  
weight, compute  
rotation speed and  
takeoff speed within  
± 5 KIAS

1.1.2.2.4.1

Determine takeoff data  
(Page:10)  
1.1.2.2

Compute takeoff and  
landing crosswind  
components  
1.1.2.2.5

Given runway heading,  
wind speed and  
direction, compute  
takeoff and landing  
crosswind components  
within  $\pm 2$  knots.  
1.1.2.2.5.1

Determine takeoff data  
(Page:10)

1.1.2.2

Compute takeoff roll  
(ground run distance)

1.1.2.2.6

Given drag index,  
takeoff gross weight,  
corrected and  
uncorrected takeoff  
speed, runway slope,  
wind speed and  
direction, and takeoff  
factor, compute takeoff  
roll(ground run  
distance) within +/-

1.1.2.2.6.1

Determine takeoff data  
(Page:10)

1.1.2.2

Compute acceleration  
check speed

1.1.2.2.7

Given drag index,  
takeoff gross weight,  
corrected and  
uncorrected and takeoff  
speed, runway slope,  
wind speed and  
direction, and takeoff  
factor, compute  
acceleration, check  
speed within  $\pm 5$  KIAS.

1.1.2.2.7.1

Determine takeoff data  
(Page:10)

1.1.2.2

Compute maximum abort  
speed and maximum brake  
speed for MIL or MAX  
power takeoffs

1.1.2.2.6

Given takeoff gross  
weight, runway slope,  
wind speed and  
direction, and takeoff  
factor, compute maximum  
abort speed and maximum  
brake speed for MIL or  
MAX powertakeoffs  
within  $\pm 5$  KIAS.

1.1.2.2.8.1

Determine takeoff data  
(Page:10)

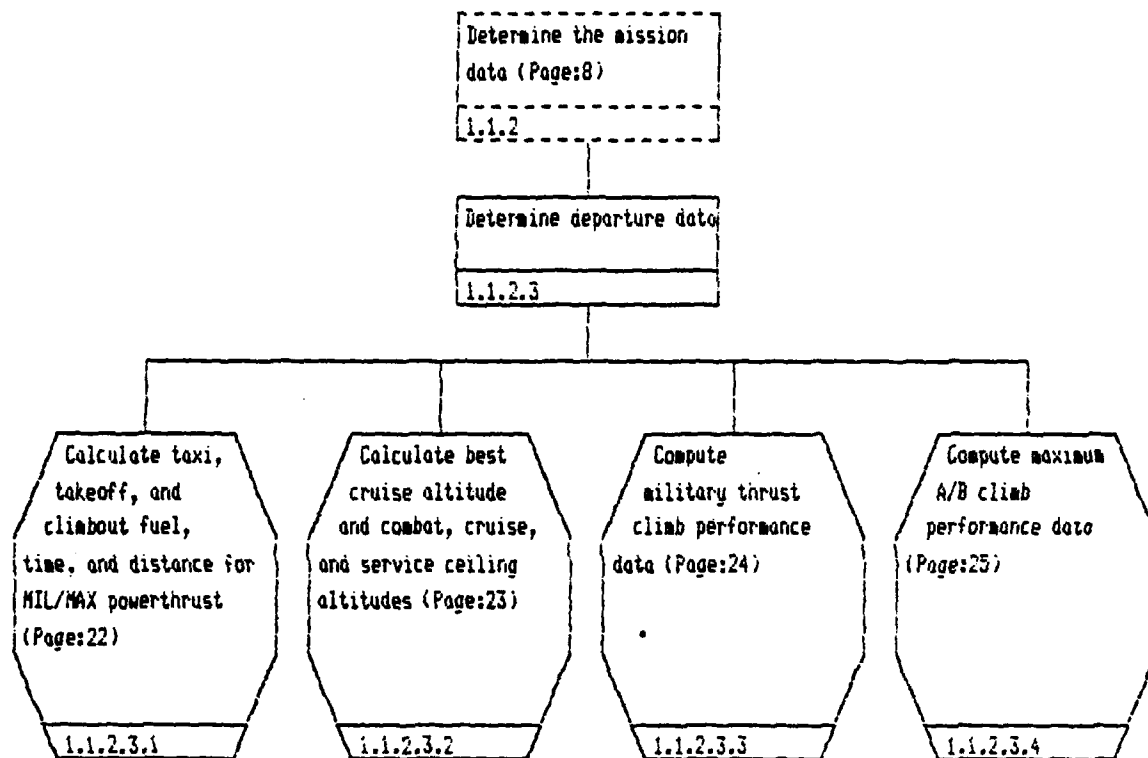
1.1.2.2

Compute effect of  
runway condition on  
maximum abort speed

1.1.2.2.9

Given takeoff gross  
weight, runway slope,  
wind speed and  
direction, and takeoff  
factor, compute effect  
of runway condition on  
maximum abort speed  
within  $\pm 10$  percent.

1.1.2.2.9.1



Determine departure  
data (Page:21)

1.1.2.3

Calculate taxi,  
takeoff, and climbout  
fuel, time, and  
distance for MIL/MAX  
powerthrust

1.1.2.3.1

Given a mission  
assignment and relevant  
mission information,  
calculate taxi,  
takeoff, and climbout  
fuel (time and  
distance) for MIL/MAX  
power thrust. Time  
correct within +/- .5  
minute, fuel within +/-

1.1.2.3.1.1

Determine departure  
data (Page:21)

1.1.2.3

Calculate best cruise  
altitude and combat,  
cruise, and service  
ceiling altitudes

1.1.2.3.2

Given a mission  
assignment and relevant  
mission information,  
compute best cruise  
altitude and combat,  
cruise, and service  
ceiling altitudes.  
Altitude values must be  
correct within +/-  
1,000 feet.

1.1.2.3.2.1

Determine departure  
data (Page:21)

1.1.2.3

Compute military thrust  
climb performance data

1.1.2.3.3

Given a mission  
assignment and relevant  
mission information,  
compute military thrust  
climb performance data.

Time values must be  
correct within +/- .5  
minute, fuel values  
within +/- 50 pounds,  
and distance values

1.1.2.3.3.1

Determine departure  
data (Page:21)

1.1.2.3

Compute maximum A/B  
climb performance data

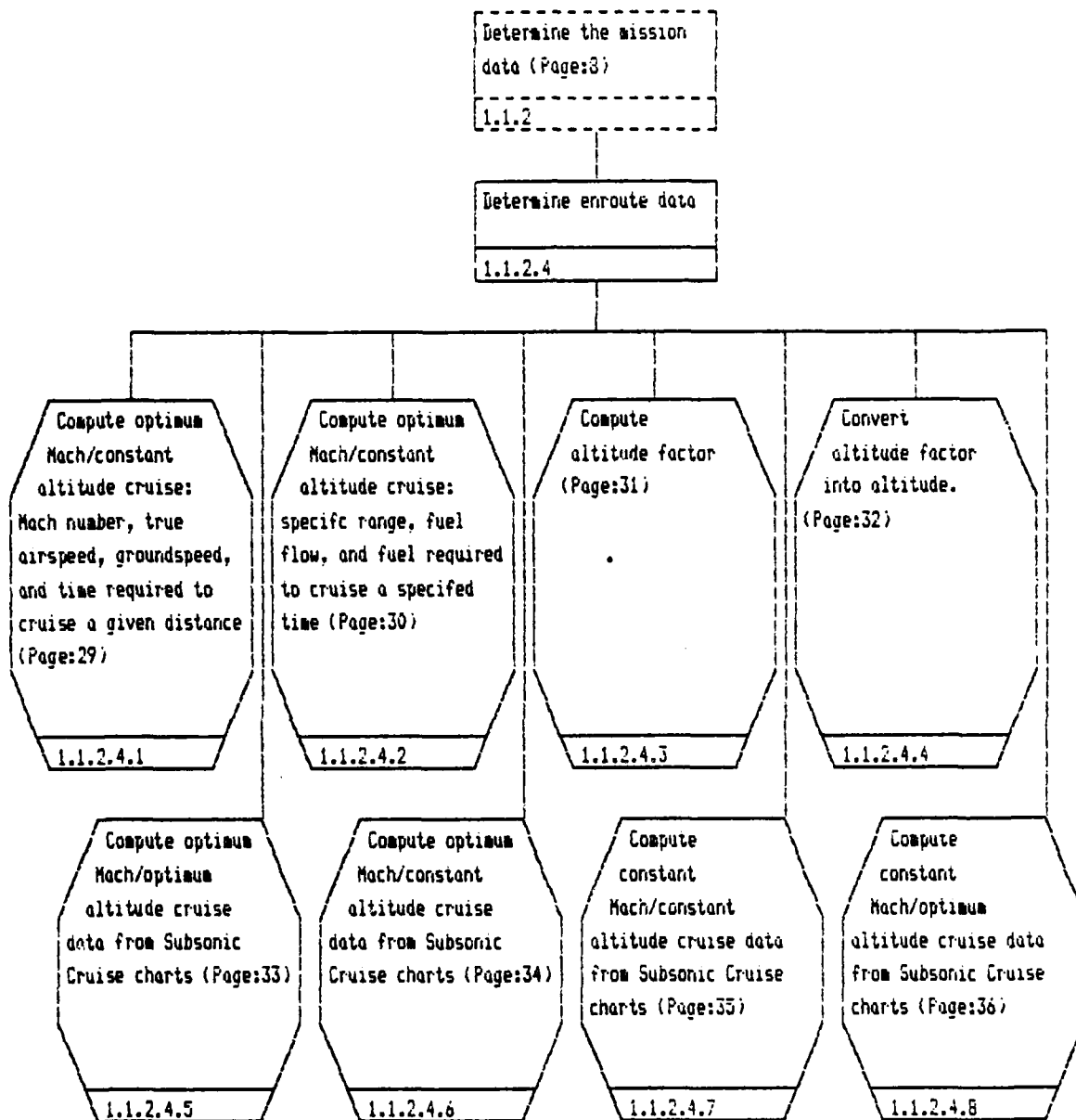
1.1.2.3.4

Given a mission  
assignment and relevant  
mission information,  
compute maximum A/B  
climb performance data.

Time must be correct  
within +/- .2 minutes,  
fuel within +/- 100  
pounds, and distance  
within +/- 2 miles.

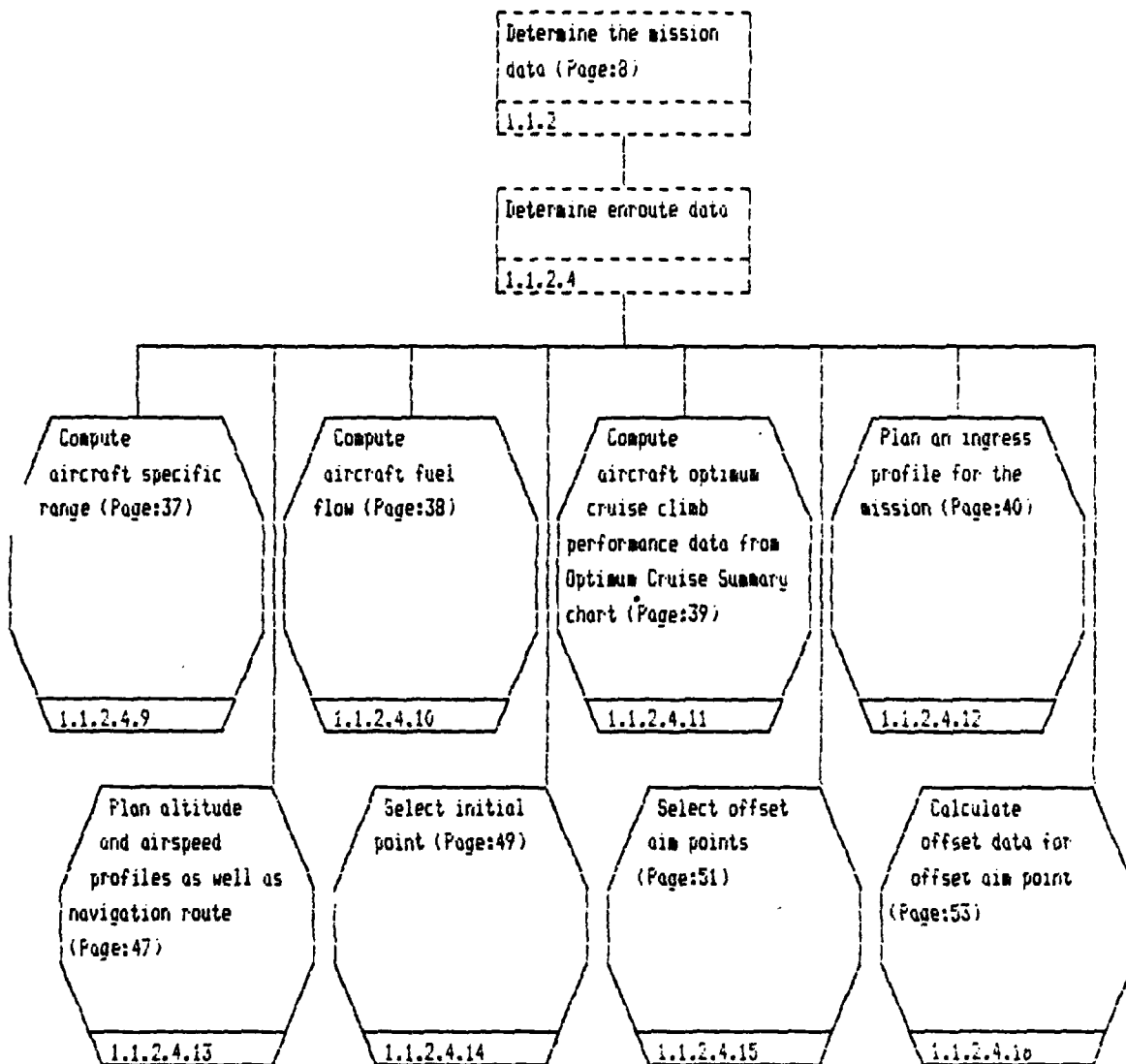
1.1.2.3.4.1

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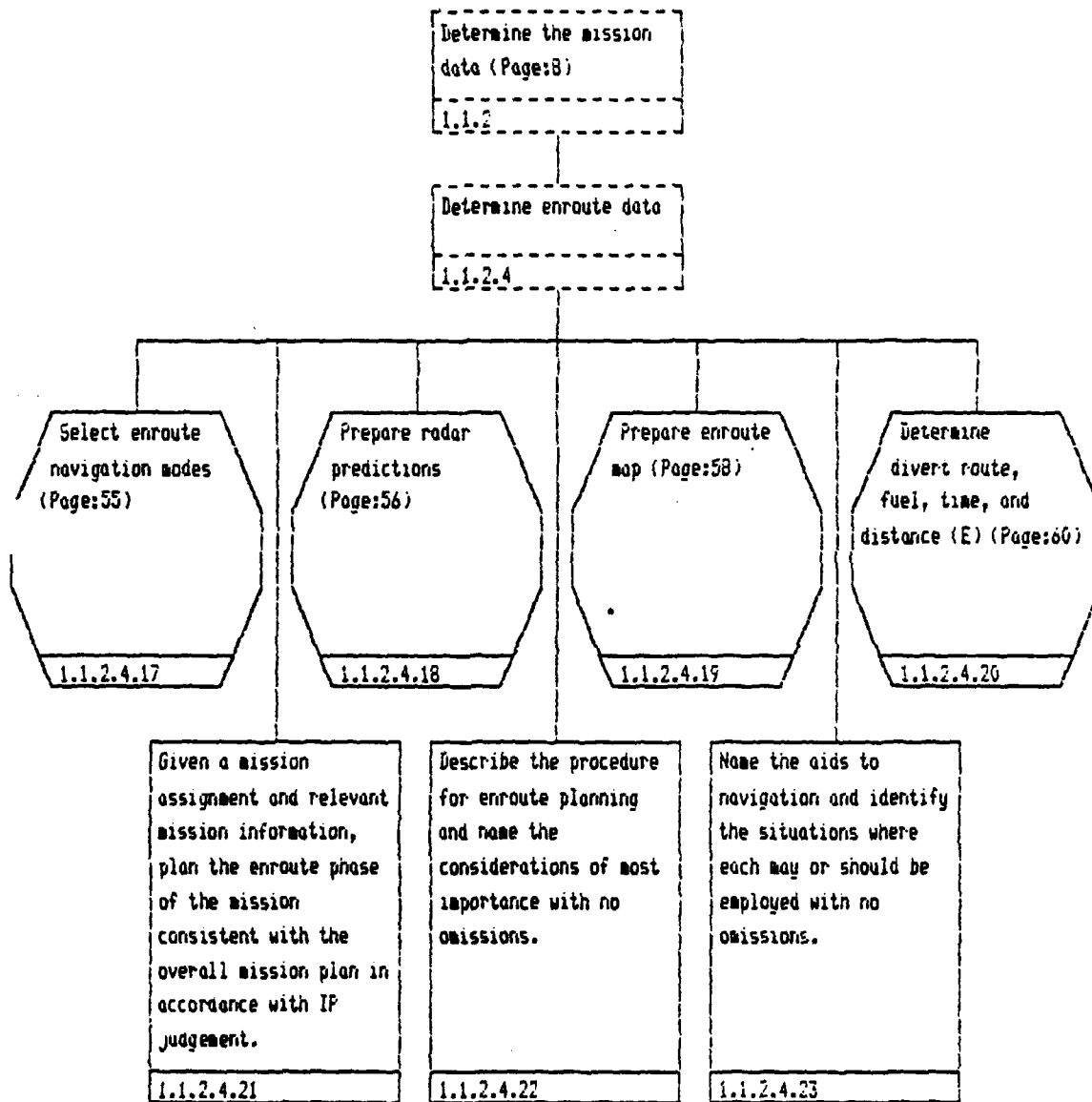


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Continued on page: 28



Continued from page: 27



Determine enroute data  
(Page:26)

1.1.2.4

Compute optimum  
Mach/constant altitude  
cruise: Mach number,  
true airspeed,  
groundspeed, and time  
required to cruise a  
given distance

1.1.2.4.1

Given a mission  
assignment and relevant  
mission info, compute  
optimum Mach/constant  
alt. cruise: Mach  
number +/- .01, true  
airspeed +/- 10 knots,  
groundspeed +/- 10  
knots, and time  
required to cruise a

1.1.2.4.1.1

Determine enroute data  
(Page:26)  
1.1.2.4

Compute optimum  
Mach/constant altitude  
cruise: specific range,  
fuel flow, and fuel  
required to cruise a  
specified time  
1.1.2.4.2

Given a mission .  
assignment and relevant  
mission info, compute  
optimum Mach/constant  
alt. cruise: specific  
range within  $\pm .005$   
nautical miles/lb., fuel  
flow within  $\pm 100$   
lbs/hr., and fuel  
required to cruise a  
1.1.2.4.2.1

Determine enroute data  
(Page:26)  
1.1.2.4

Compute altitude factor  
1.1.2.4.3

Given a mission  
assignment and relevant  
mission information,  
compute altitude factor  
within  $\pm 0.2$   
1.1.2.4.3.1

Determine enroute data  
(Page:26)  
1.1.2.4

Convert altitude factor  
into altitude.  
1.1.2.4.4

Given a mission  
assignment and relevant  
mission information,  
convert altitude factor  
into altitude within  
± 500 ft.  
1.1.2.4.4.1

Determine enroute data  
(Page:26)  
1.1.2.4

Compute optimum  
Mach/optimum altitude  
cruise data from  
Subsonic Cruise charts  
1.1.2.4.5

Given a mission  
assignment and relevant  
mission information,  
compute optimum  
Mach/optimum altitude  
cruise data from  
subsonic cruise charts.  
1.1.2.4.5.1

Determine enroute data  
(Page:26)  
1.1.2.4

Compute optimum  
Mach/constant altitude  
cruise data from  
Subsonic Cruise charts  
1.1.2.4.6

Given a mission  
assignment and relevant  
mission information,  
compute optimum  
Mach/constant altitude  
cruise data from  
Subsonic Cruise charts.  
1.1.2.4.6.1

Determine enroute data  
(Page:26)

1.1.2.4

Compute constant  
Mach/constant altitude  
cruise data from  
Subsonic Cruise charts

1.1.2.4.7

Given a mission  
assignment and relevant  
mission information,  
compute constant Mach  
constant altitude  
cruise data from  
Subsonic Cruise charts

1.1.2.4.7.i

Determine enroute data  
(Page:26)  
1.1.2.4

Compute constant  
Mach/optimum altitude  
cruise data from  
Subsonic Cruise charts  
1.1.2.4.8

Given a mission  
assignment and relevant  
mission information,  
compute constant  
Mach/optimum altitude  
cruise data from  
Subsonic Cruise charts  
1.1.2.4.8.1

Determine enroute data  
(Page:26)  
1.1.2.4

Compute aircraft  
specific range  
1.1.2.4.9

Given a mission  
assignment and relevant  
mission information,  
compute aircraft  
specific range within  
+/- .0025 nautical  
miles/pound.  
1.1.2.4.9.1

Determine enroute data  
(Page:26)  
1.1.2.4

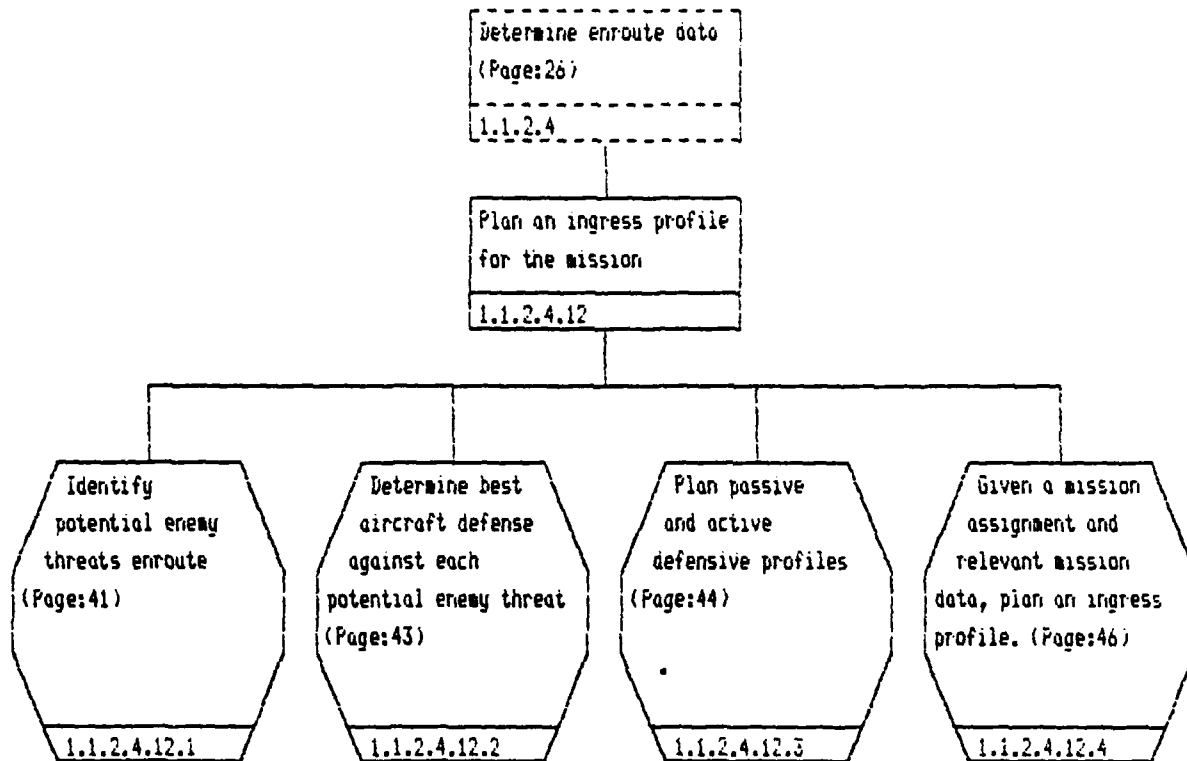
Compute aircraft fuel  
flow  
1.1.2.4.10

Given a mission  
assignment and relevant  
mission information,  
compute aircraft fuel  
flow.  
1.1.2.4.10.1

Determine enroute data  
(Page:26)  
1.1.2.4

Compute aircraft  
optimum cruise climb  
performance data from  
Optimum Cruise Summary  
chart  
1.1.2.4.11

Given a mission  
assignment and relevant  
mission information,  
compute aircraft  
optimum cruise-climb  
performance data from  
Optimum Cruise Summary  
chart:  
1.1.2.4.11.1



Identify potential  
enemy threats enroute  
(Page:41)

1.1.2.4.12.1

Given a mission  
assignment and intel  
data, identify  
potential enemy threats  
which may be  
encountered with no  
omissions

1.1.2.4.12.1.1

Name the considerations  
of most importance for  
identifying potential  
enemy threats enroute  
without omissions

1.1.2.4.12.1.1.1

Plan an ingress profile  
for the mission  
(Page:40)

1.1.2.4.12

Identify potential  
enemy threats enroute

1.1.2.4.12.1

Given a mission  
assignment and  
intel data,  
identify potential  
enemy threats which may  
be encountered with no  
omissions (Page:42)

1.1.2.4.12.1.1

Plan an ingress profile  
for the mission  
(Page:40)

1.1.2.4.12

Determine best aircraft  
defense against each  
potential enemy threat

1.1.2.4.12.2

Given potential enemy  
threats, state the best  
aircraft defense  
against each in  
accordance with  
tactical doctrine

1.1.2.4.12.2.1

Plan an ingress profile  
for the mission  
(Page:40)  
1.1.2.4.12

Plan passive and active  
defensive profiles  
1.1.2.4.12.3

Given a mission  
assignment and  
relevant mission  
information, plan  
passive and active  
defensive profiles in  
accordance with  
tactical doctrine.  
(Page:45)  
1.1.2.4.12.3.1

Plan passive and active  
defensive profiles  
(Page:44)

1.1.2.4.12.3

Given a mission  
assignment and relevant  
mission information,  
plan passive and active  
defensive profiles in  
accordance with  
tactical doctrine.

1.1.2.4.12.3.1

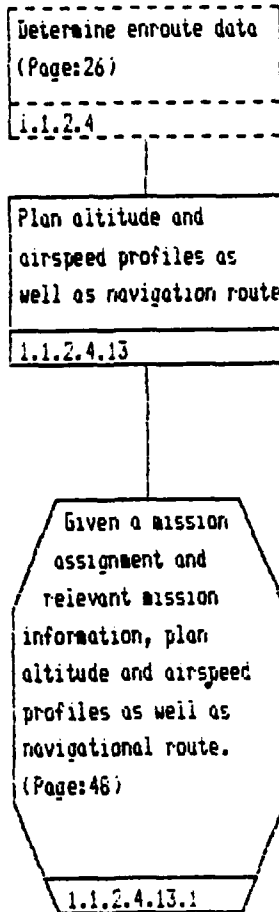
State the steps and  
principles in planning  
active and passive  
defensive profiles in  
accordance with current  
tactical doctrine.

1.1.2.4.12.3.1.1

Plan an ingress profile  
for the mission  
(Page:40)  
1.1.2.4.12

Given a mission  
assignment and relevant  
mission data, plan an  
ingress profile.  
1.1.2.4.12.4

Name the considerations  
of most importance for  
planning an ingress  
profile without  
omission.  
1.1.2.4.12.4.1



Plan altitude and  
airspeed profiles as  
well as navigation  
route (Page:47)

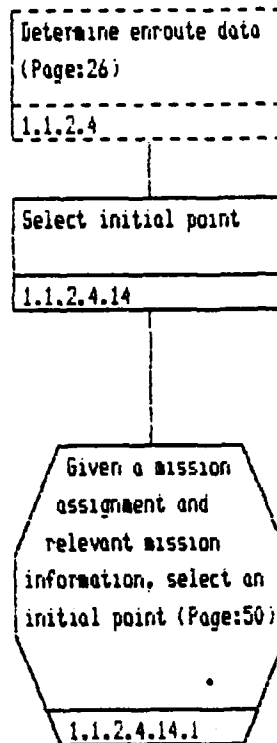
1.1.2.4.13

Given a mission  
assignment and relevant  
mission information,  
plan altitude and  
airspeed profiles as  
well as navigational  
route.

1.1.2.4.13.1

State the steps and  
principles in planning  
altitude and airspeed  
profiles as well as  
navigation route in  
accordance with current  
doctrine and  
regulations.

1.1.2.4.13.1.1



Select initial point  
(Page:49)

1.1.2.4.14

Given a mission  
assignment and relevant  
mission information,  
select an initial point

1.1.2.4.14.1

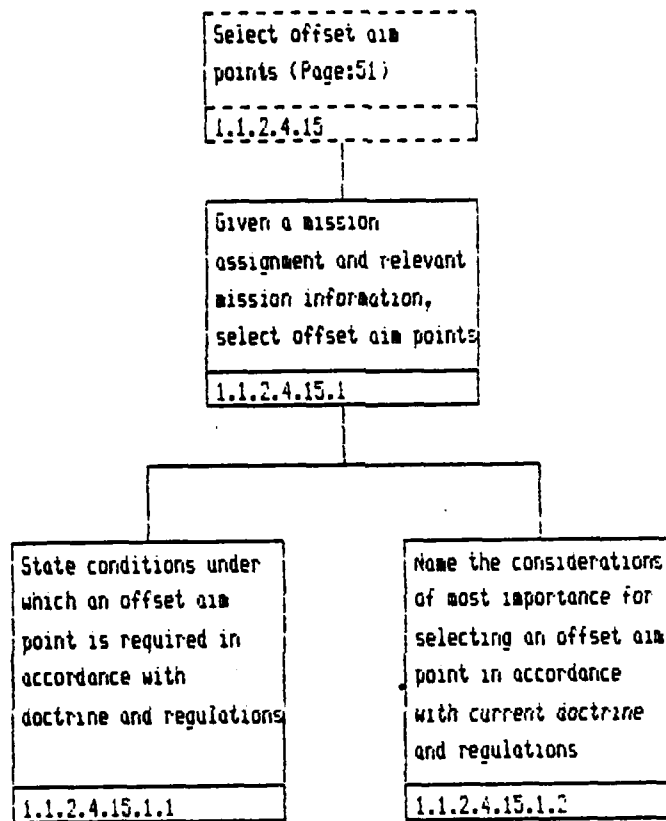
Name the considerations  
of most importance for  
selecting an initial  
point in accordance  
with current doctrine  
and regulations.

1.1.2.4.14.1.1

Determine enroute data  
(Page:26)  
1.1.2.4

Select offset aim points  
1.1.2.4.15

Given a mission  
assignment and  
relevant mission  
information, select  
offset aim points  
(Page:52)  
1.1.2.4.15.1



Determine enroute data  
(Page:26)  
1.1.2.4

Calculate offset data  
for offset aim point  
1.1.2.4.16

Given target  
area charts, a  
divider, and a  
plotter, calculate the  
offset data for an  
offset aim point  
within +/- the smallest  
unit on the target area  
chart (Page:54)  
1.1.2.4.16.1

Calculate offset data  
for offset aim point  
(Page:53)  
1.1.2.4.16

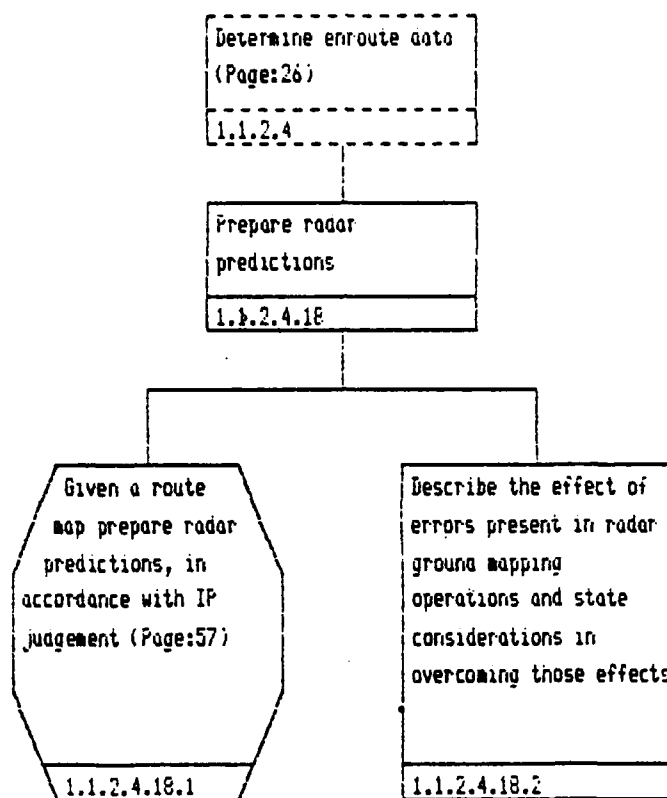
Given target area  
charts, a divider, and  
a plotter, calculate  
the offset data for an  
offset aim point  
within +/- the smallest  
unit on the target area  
chart  
1.1.2.4.16.1

Describe the procedure  
for calculating offset  
for offset data aim  
point without omission  
1.1.2.4.16.1.1

Determine enroute data  
(Page:26)  
1.1.2.4

Select enroute  
navigation modes  
1.1.2.4.17

Given a mission  
assignment and relevant  
mission information,  
select enroute  
navigation modes  
1.1.2.4.17.1



Prepare radar  
predictions (Page:56)

1.1.2.4.18

Given a route map  
prepare radar  
predictions, in  
accordance with IP  
judgement

1.1.2.4.18.1

Given a photograph of  
an object or terrain  
feature, describe the  
radar display accurately

1.1.2.4.18.1.1

Determine enroute data  
(Page:26)

1.1.2.4

Prepare enroute map

1.1.2.4.19

Given a mission assignment and relevant mission information, prepare enroute map in accordance with IP judgement. (Page:59)

1.1.2.4.19.1

Prepare enroute map  
(Page:58)

1.1.2.4.19

Given a mission  
assignment and relevant  
mission information,  
prepare enroute map in  
accordance with IP  
judgement.

1.1.2.4.19.1

Describe the procedure  
for preparing enroute  
map and name the  
considerations of most  
importance with no  
omissions

1.1.2.4.19.1.1

Determine enroute data  
(Page:26)  
1.1.2.4

Determine divert route,  
fuel, time, and  
distance (E)  
1.1.2.4.20

Given a mission  
assignment and  
relevant mission  
information, determine  
divert route, fuel,  
time, and distance.  
(Page:61)  
1.1.2.4.20.1

Determine divert route,  
fuel, time, and  
distance (E) (Page:60)

1.1.2.4.20

Given a mission  
assignment and relevant  
mission information,  
determine divert route,  
fuel, time, and  
distance.

1.1.2.4.20.1

Name the considerations  
of most importance for  
determining divert  
route, fuel, time, and  
distance with no  
omissions

1.1.2.4.20.1.1

Determine the mission  
data (Page:8)

1.1.2

Accomplish air-to-air  
refueling planning

1.1.2.5

Given a mission  
assignment and  
relevant mission  
information, accomplish  
air-to-air refueling  
planning (Page:63)

1.1.2.5.1

Accomplish air-to-air  
refueling planning  
(Page:62)

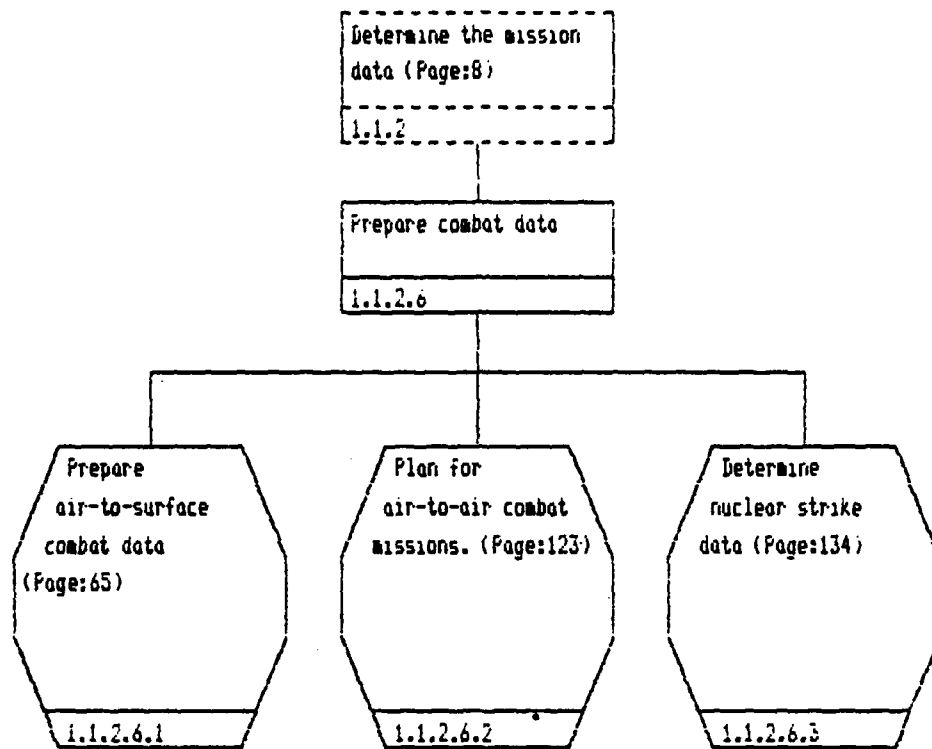
1.1.2.5

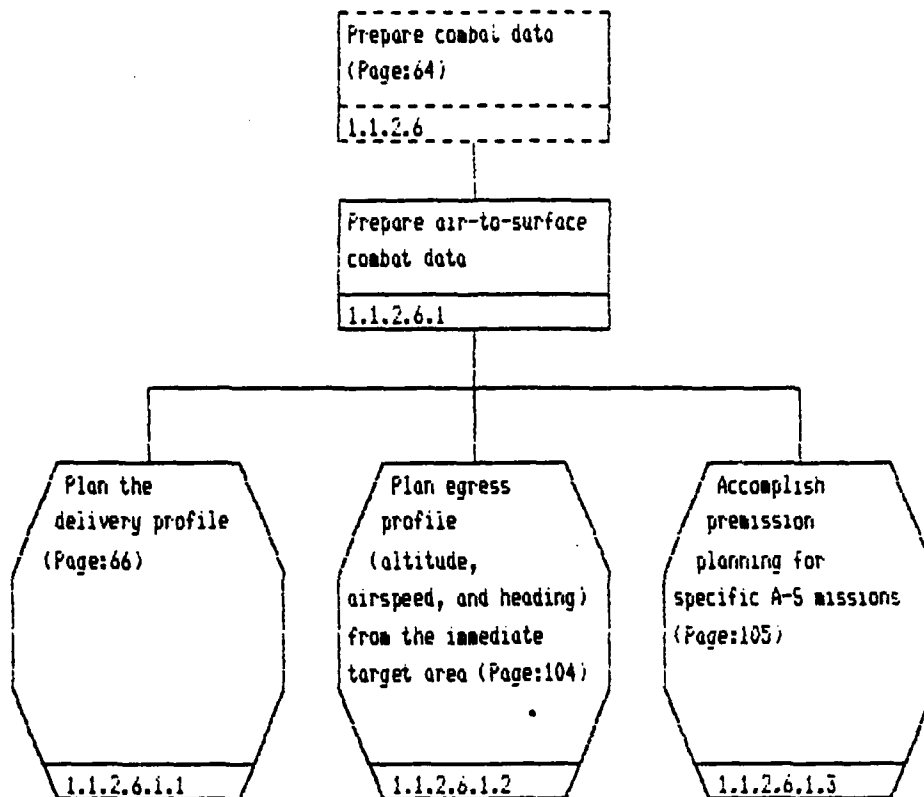
Given a mission  
assignment and relevant  
mission information,  
accomplish air-to-air  
refueling planning

1.1.2.5.1

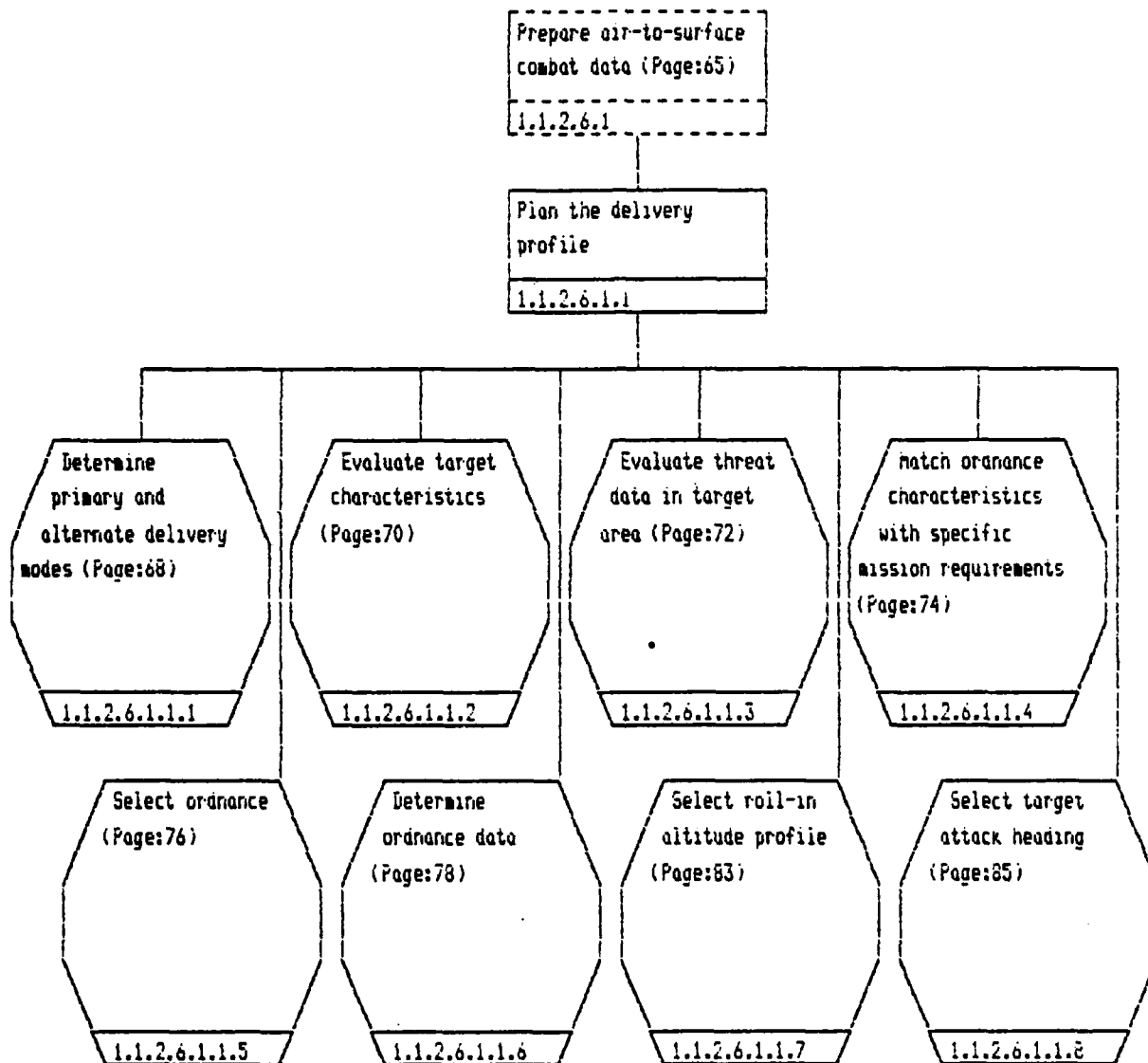
Describe the procedure  
for accomplishing  
air-to-air refueling  
planning without  
mission

1.1.2.5.1.1

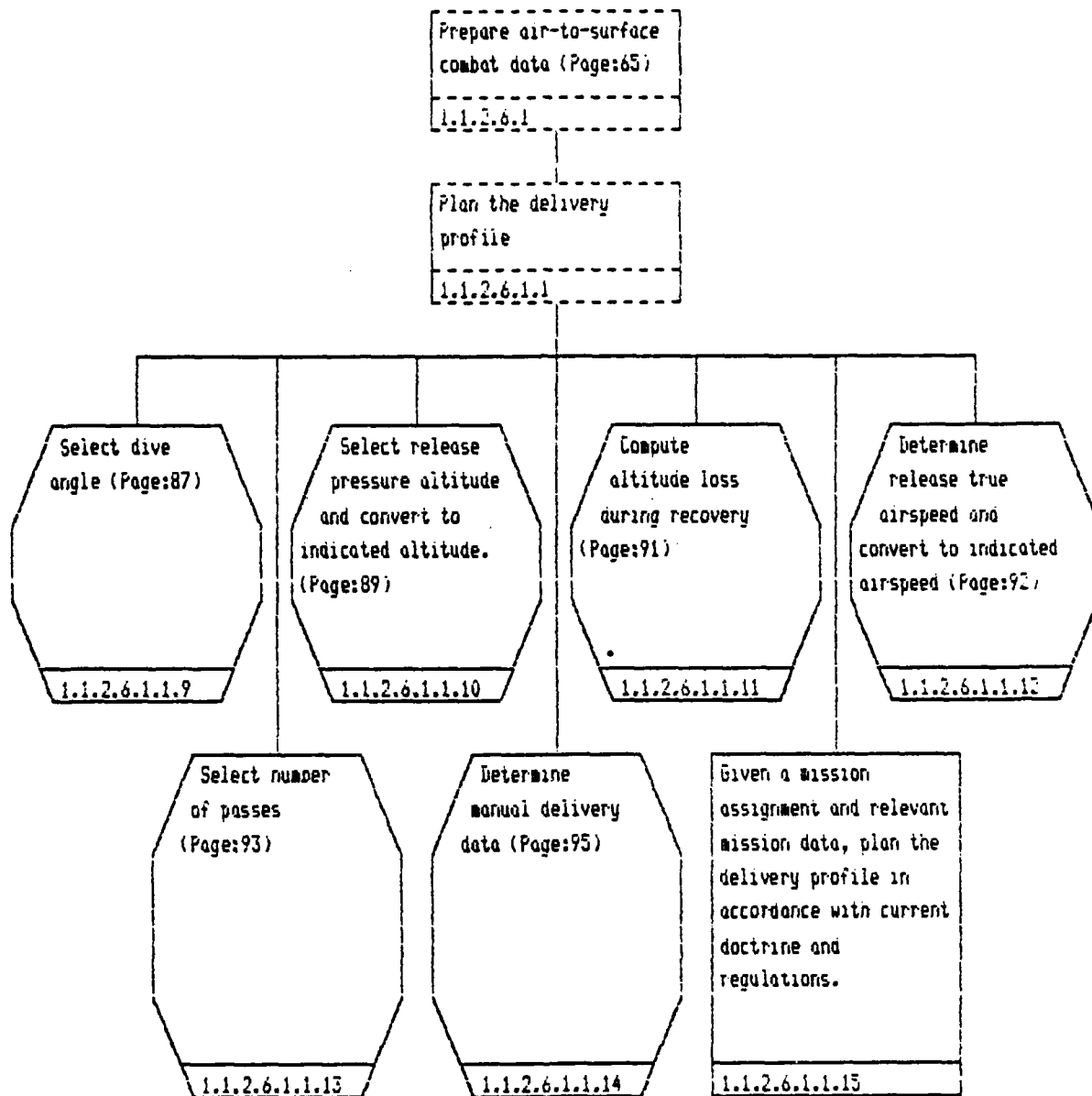




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Plan the delivery  
profile (Page:66)

1.1.2.6.1.1

Determine primary and  
alternate delivery modes

1.1.2.6.1.1.1

Given a mission  
assignment and  
relevant mission  
data determine primary  
and alternate delivery  
modes in accordance  
with IP judgement.  
(Page:69)

1.1.2.6.1.1.1.1

Determine primary and  
alternate delivery  
modes (Page:68)

1.1.2.6.1.1.1

Given a mission  
assignment and relevant  
mission data determine  
primary and alternate  
delivery modes in  
accordance with IP  
judgement.

1.1.2.6.1.1.1.1

Given the varieties of  
delivery modes,  
describe the situations  
where each may or  
should be employed in  
accordance with IP  
judgement.

(Weapons  
Systems)

1.1.2.6.1.1.1.1.1

Plan the delivery  
profile (Page:66)

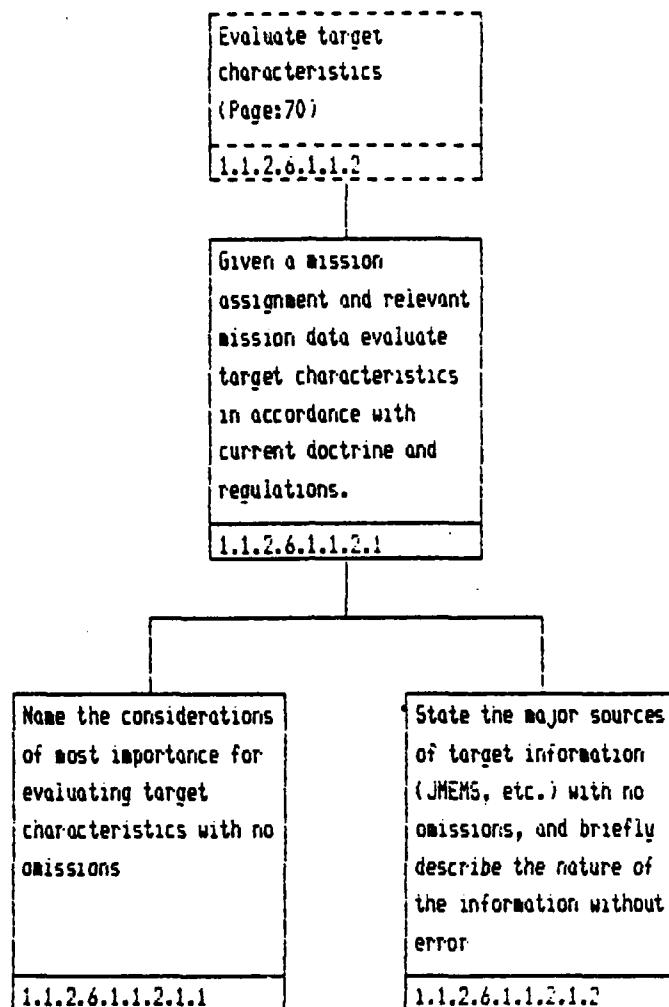
1.1.2.6.1.1

Evaluate target  
characteristics

1.1.2.6.1.1.2

Given a mission  
assignment and  
relevant mission  
data evaluate target  
characteristics in  
accordance with current  
doctrine and  
regulations. (Page:71)

1.1.2.6.1.1.2.1



Plan the delivery  
profile (Page:66)  
1.1.2.6.1.1

Evaluate threat data in  
target area  
1.1.2.6.1.1.3

Given a mission  
assignment and  
relevant mission  
data, evaluate threat  
data in target area in  
accordance with current  
doctrine and  
regulations. (Page:73)  
1.1.2.6.1.1.3.1

Evaluate threat data in  
target area (Page:72)

1.1.2.6.1.1.3

Given a mission  
assignment and relevant  
mission data, evaluate  
threat data in target  
area in accordance with  
current doctrine and  
regulations.

1.1.2.6.1.1.3.1

Name the considerations  
most important for  
target area threat  
evaluations with no  
omissions.

1.1.2.6.1.1.3.1.1

Plan the delivery  
profile (Page:66)

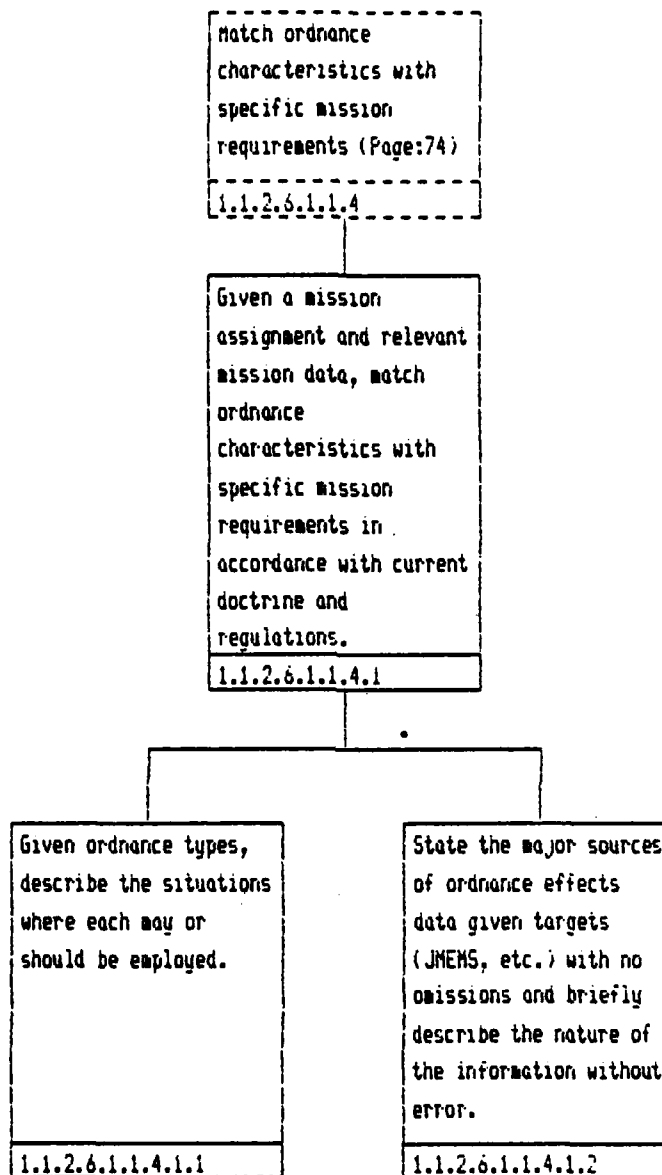
1.1.2.6.1.1

Match ordnance  
characteristics with  
specific mission  
requirements

1.1.2.6.1.1.4

Given a mission  
assignment and  
relevant mission  
data, match ordnance  
characteristics with  
specific mission  
requirements in  
accordance with current  
doctrine and  
regulations.

1.1.2.6.1.1.4.1



Plan the delivery  
profile (Page:66)

1.1.2.6.1.1

Select ordnance

1.1.2.6.1.1.5

Given a mission  
assignment and  
relevant mission  
data, select ordnance  
in accordance with  
current doctrine and  
regulations. (Page:77)

1.1.2.6.1.1.5.1

Select ordnance  
(Page:76)

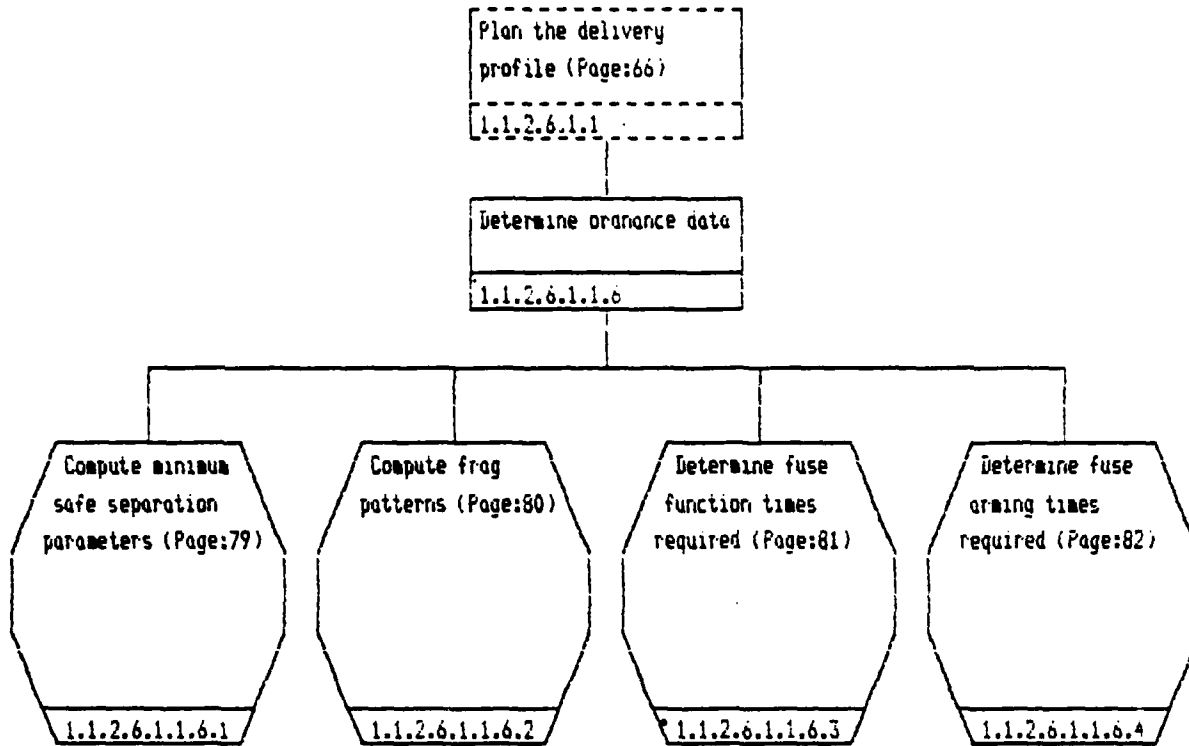
1.1.2.6.1.1.5

Given a mission  
assignment and relevant  
mission data, select  
ordnance in accordance  
with current doctrine  
and regulations.

1.1.2.6.1.1.5.1

Name the considerations  
of most importance for  
selecting ordnance  
without omission.

1.1.2.6.1.1.5.1.1



Determine ordnance data  
(Page:78)  
1.1.2.6.1.1.6

Compute minimum safe  
separation parameters  
1.1.2.6.1.1.6.1

Given a mission  
assignment and relevant  
mission data, compute  
minimum safe separation  
parameters without  
error.  
1.1.2.6.1.1.6.1.1

Determine ordnance data  
(Page:78)

1.1.2.6.1.1.6

Compute frag patterns

1.1.2.6.1.1.6.2

Given a mission  
assignment and relevant  
mission data, compute  
frag patterns within  
+/- 250 feet.

1.1.2.6.1.1.6.2.1

Determine ordnance data  
(Page:78)

1.1.2.6.1.1.6

Determine fuse function  
times required

1.1.2.6.1.1.6.3

Given weapon, release  
altitude, dive angle  
and true air speed,  
determine fuse function  
times required without  
error.

1.1.2.6.1.1.6.3.1

Determine ordnance data  
(Page:78)

1.1.2.6.1.1.6

Determine fuse arming  
times required

1.1.2.6.1.1.6.4

Given a mission  
assignment and relevant  
mission data, determine  
fuse arming times  
required without error.

1.1.2.6.1.1.6.4.1

Plan the delivery  
profile (Page:66)

1.1.2.6.1.1

Select roll-in altitude  
profile

1.1.2.6.1.1.7

Given a mission  
assignment and  
relevant mission  
data, select roll-in  
altitude profile in  
accordance with current  
tactical doctrine.  
(Page:84)

1.1.2.6.1.1.7.1

Select roll-in altitude  
profile (Page:63)

1.1.2.6.1.1.7

Given a mission  
assignment and relevant  
mission data, select  
roll-in altitude  
profile in accordance  
with current tactical  
doctrine.

1.1.2.6.1.1.7.1

Name the considerations  
of most importance for  
selecting roll-in  
profile with no  
omissions.

1.1.2.6.1.1.7.1.1

Plan the delivery  
profile (Page:66)  
1.1.2.6.1.1

Select target attack  
heading  
1.1.2.6.1.1.8

Given a mission  
assignment and  
relevant mission  
data, select target  
attack heading in  
accordance with current  
tactical doctrine  
(Page:86)  
1.1.2.6.1.1.8.1

Select target attack  
heading (Page:85)

1.1.2.6.1.1.8

Given a mission  
assignment and relevant  
mission data, select  
target attack heading  
in accordance with  
current tactical  
doctrine

1.1.2.6.1.1.8.1

Name the considerations  
of most importance for  
selecting target attack  
heading with no  
omissions.

1.1.2.6.1.1.8.1.1

Plan the delivery  
profile (Page:66)

1.1.2.6.1.1

Select dive angle

1.1.2.6.1.1.9

Given a mission  
assignment and  
relevant mission  
data, select dive angle  
in accordance with  
current tactical  
doctrine and  
regulations. (Page:88)

1.1.2.6.1.1.9.1

Select dive angle  
(Page:87)

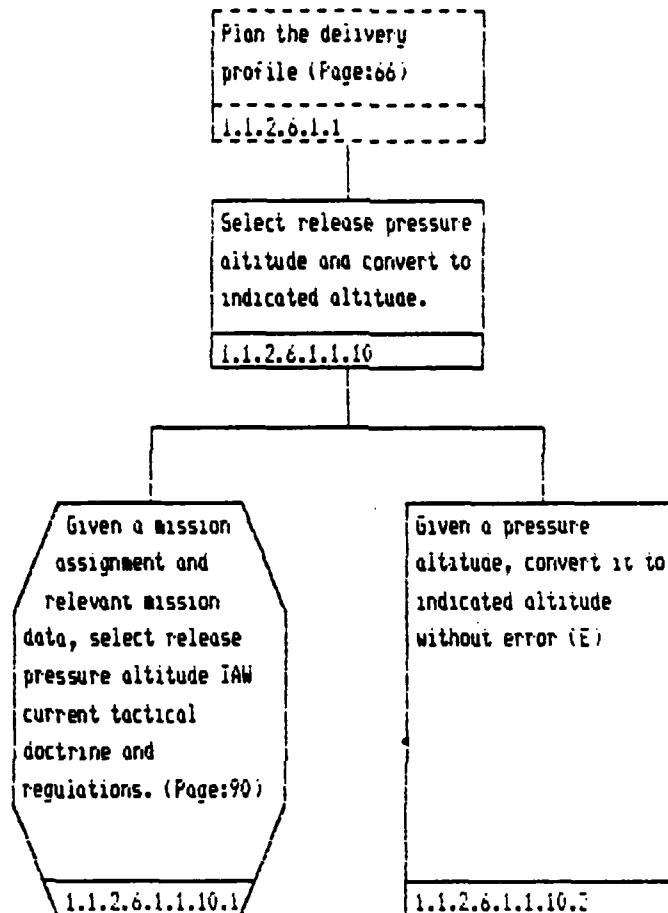
1.1.2.6.1.1.9

Given a mission  
assignment and relevant  
mission data, select  
dive angle in  
accordance with current  
tactical doctrine and  
regulations.

1.1.2.6.1.1.9.1

Name the considerations  
most important for  
selecting dive angle  
with no omissions

1.1.2.6.1.1.9.1.1



Select release pressure  
altitude and convert to  
indicated altitude.  
(Page:89)

1.1.2.6.1.1.10

Given a mission  
assignment and relevant  
mission data, select  
release pressure  
altitude IAW current  
tactical doctrine and  
regulations.

1.1.2.6.1.1.10.1

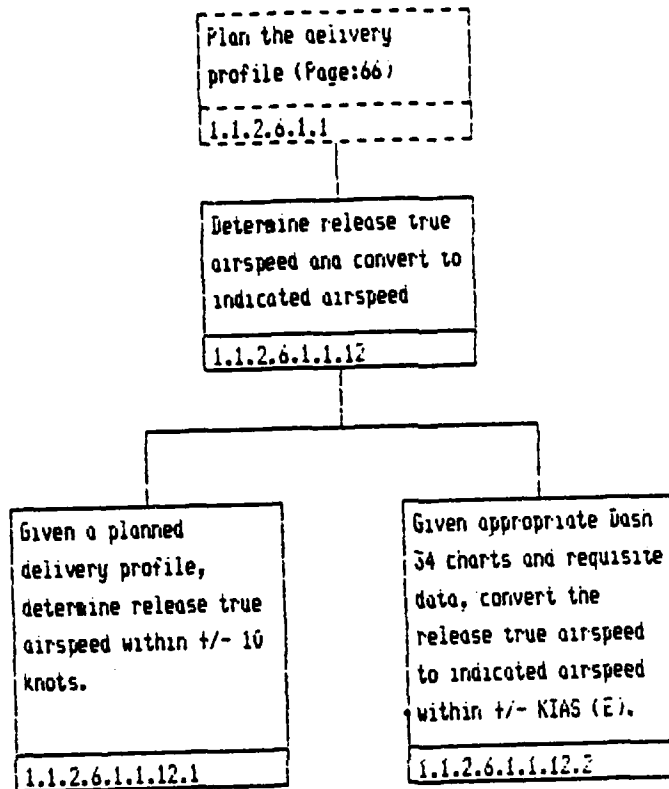
Name the considerations  
of most importance for  
selecting release  
pressure altitude with  
no omissions.

1.1.2.6.1.1.10.1.1

Plan the delivery  
profile (Page:66)  
1.1.2.6.1.1

Compute altitude loss  
during recovery  
1.1.2.6.1.1.11

Given a planned  
delivery profile,  
compute altitude loss  
during recovery within  
± 50 feet.  
1.1.2.6.1.1.11.1



Plan the delivery  
profile (Page:86)

1.1.2.6.1.1

Select number of passes

1.1.2.6.1.1.13

Given a mission  
assignment and  
relevant mission  
data, select the number  
of passes IAW current  
tactical doctrine  
(Page:94)

1.1.2.6.1.1.13.1

Select number of passes  
(Page:93)

1.1.2.6.1.1.13

Given a mission  
assignment and relevant  
mission data, select  
the number of passes  
IAW current tactical  
doctrine

1.1.2.6.1.1.13.1

Name the considerations  
of most importance for  
selecting the number of  
passes with no omissions

1.1.2.6.1.1.13.1.1

Plan the delivery  
profile (Page:66)

1.1.2.6.1.1

Determine manual  
delivery data

1.1.2.6.1.1.14

Determine MIL  
setting and wind  
correction (Page:96)

1.1.2.6.1.1.14.1

Determine  
release range  
(Page:97)

1.1.2.6.1.1.14.2

Determine aim  
of: distance  
(Page:98)

1.1.2.6.1.1.14.3

Compute impact  
interval in  
milliseconds for  
given stick length  
(Page:99)

1.1.2.6.1.1.14.4

Calculate  
crosswind  
correction  
(Page:100)

1.1.2.6.1.1.14.5

Calculate  
initial pipper  
placement (IPP)  
(Page:101)

1.1.2.6.1.1.14.6

Calculate RAP  
(Page:102)

1.1.2.6.1.1.14.7

Describe the function  
of each type of data to  
be derived during  
manual delivery  
planning without error

1.1.2.6.1.1.14.8

Determine manual  
delivery data (Page:95)  
1.1.2.6.1.1.14

Determine MIL setting  
and wind correction  
1.1.2.6.1.1.14.1

Given a planned  
delivery profile,  
determine MIL setting  
and wind correction  
within +/- 5 MILs.  
1.1.2.6.1.1.14.1.1

Determine annual  
delivery data (Page:95)  
1.1.2.6.1.1.14

Determine release range  
1.1.2.6.1.1.14.2

Given a planned  
delivery profile,  
determine release range  
within +/- 50 feet  
1.1.2.6.1.1.14.2.1

Determine manual  
delivery data (Page:95)

1.1.2.6.1.1.14

Determine aim off  
distance

1.1.2.6.1.1.14.3

Given a planned  
delivery profile,  
determine aim off  
distance within +/- 100  
feet

1.1.2.6.1.1.14.3.1

Determine manual  
delivery data (Page:95)  
1.1.2.6.1.1.14

Compute impact interval  
in milliseconds for  
given stick length  
1.1.2.6.1.1.14.4

Given a planned  
delivery profile,  
compute impact interval  
in milliseconds for  
given stick length  
within +/- 10  
milliseconds. .  
1.1.2.6.1.1.14.4.1

Determine manual  
delivery data (Page:95)

1.1.2.6.1.1.14

Calculate crosswind  
correction

1.1.2.6.1.1.14.5

Given a planned  
delivery profile,  
windspeed, and wind  
direction, calculate  
crosswind correction  
withn +/- 1 foot/knot.

1.1.2.6.1.1.14.5.1

Determine manual  
delivery data (Page 95)  
1.1.2.6.1.1.14

Calculate initial  
dipper placement (IFF)  
1.1.2.6.1.1.14.c

Given a planned  
delivery profile,  
calculate initial  
dipper placement (IFF)  
within +/- 5 mLS.  
1.1.2.6.1.1.14.c.1

Determine manual  
delivery data (Page:95)  
1.1.2.6.1.1.14

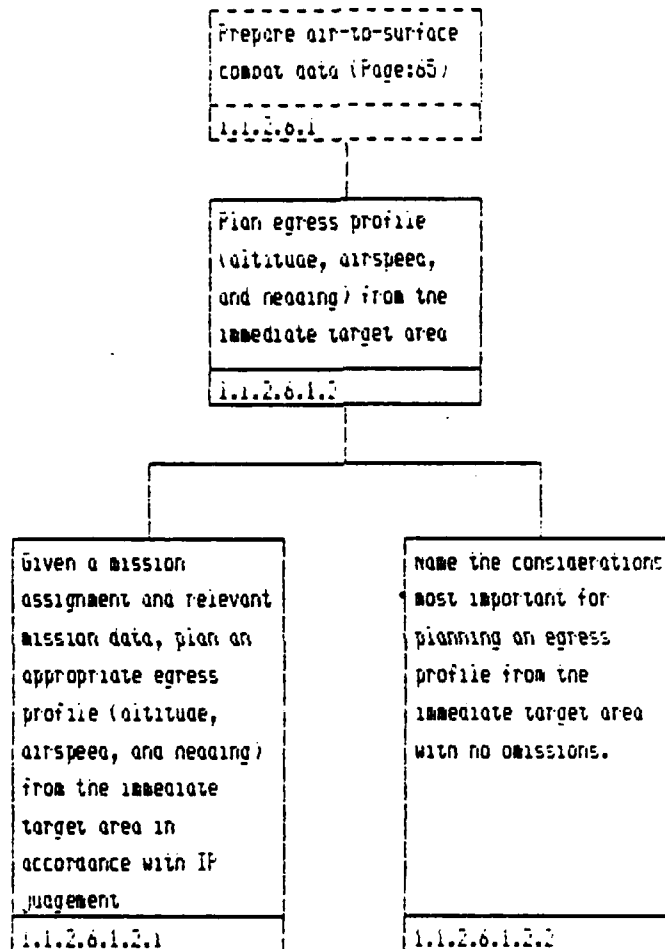
Calculate RAR  
1.1.2.6.1.1.14.7

Given a planned  
delivery profile,  
calculate RAR within  
±/- 10 feet.  
1.1.2.6.1.1.14.7.8

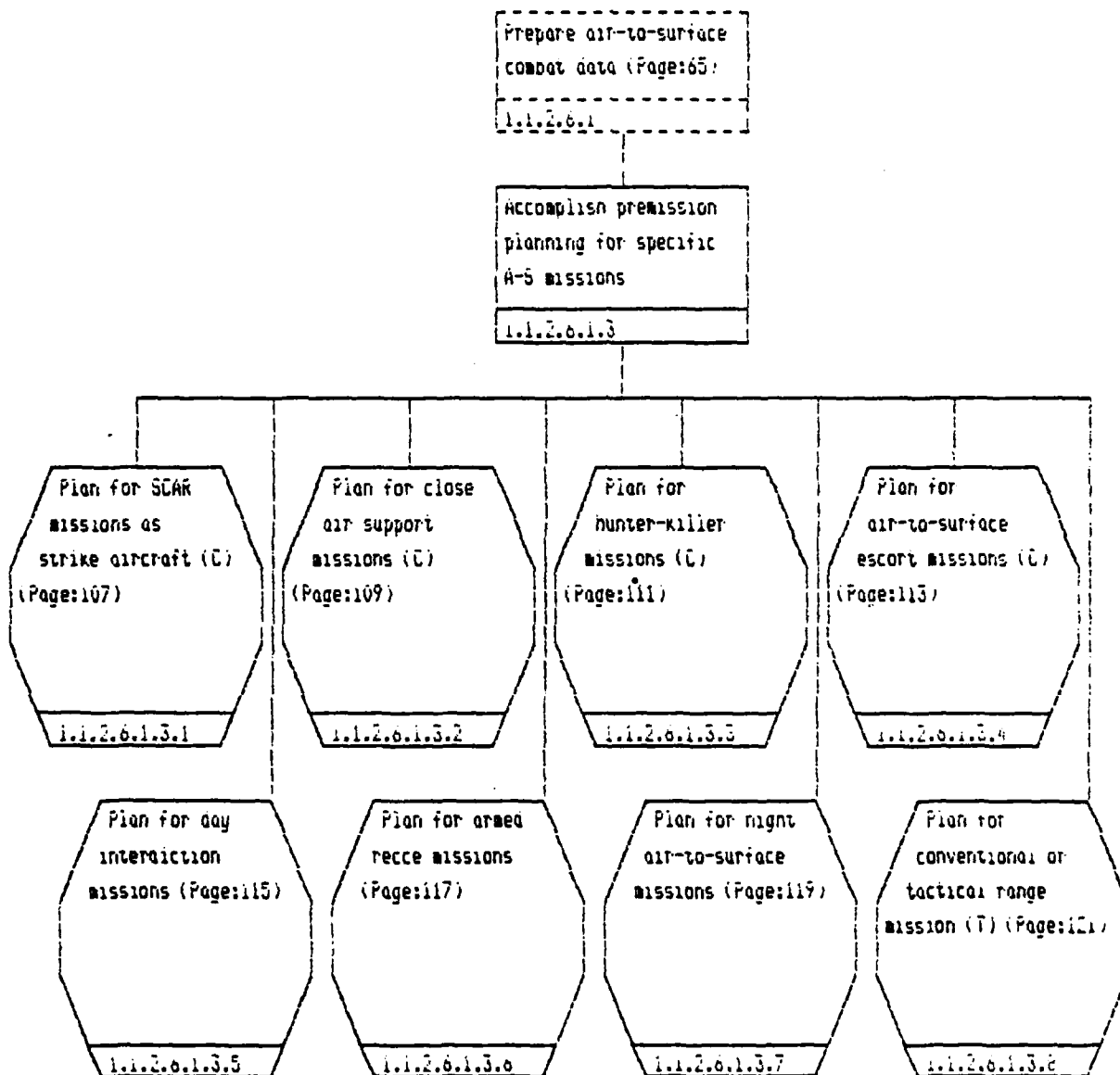
Plan the delivery  
profile (Page:00)  
1.1.2.6.1.1

Given a mission  
assignment and relevant  
mission data, plan the  
delivery profile in  
accordance with current  
doctrine and  
regulations.  
1.1.2.6.1.1.15

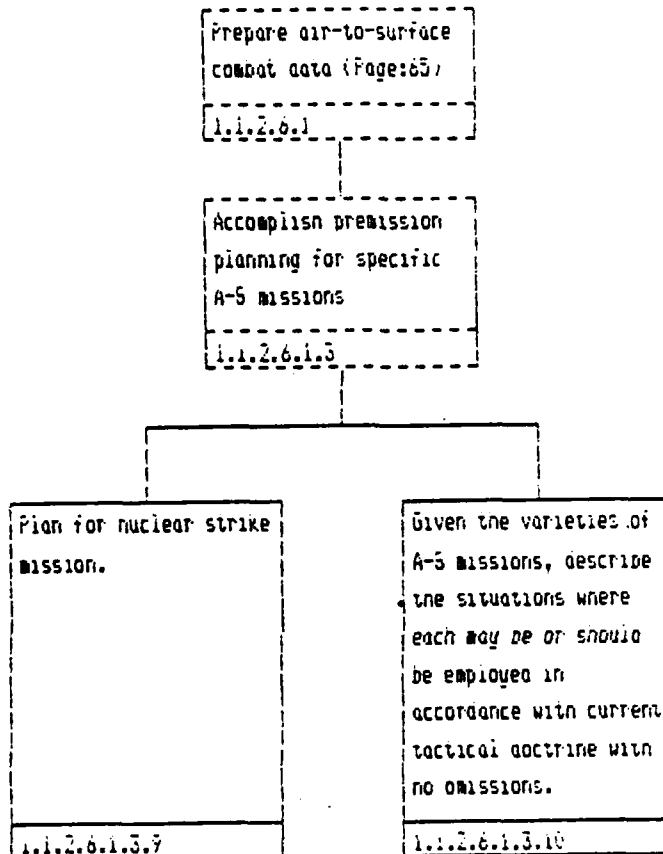
Given a mission  
assignment and relevant  
mission data, plan the  
delivery profile in  
accordance with current  
doctrine and  
regulations. (Page:0)  
1.1.2.6.1.1.15.1



Continued on page: 106



Continued from page: 105



Accomplish premission  
planning for specific  
A-5 missions (Page:105)  
1.1.2.6.1.3

Plan for SCAR missions  
as strike aircraft (C)  
1.1.2.6.1.3.1

Given a mission  
assignment and  
relevant mission  
data, plan for a SCAR  
mission as strike  
aircraft in accordance  
with current tactical  
doctrine (Page:108)  
1.1.2.6.1.3.1.1

Plan for SCAR missions  
as strike aircraft (C)  
(Page:107)

1.1.2.6.1.3.1

Given a mission  
assignment and relevant  
mission data, plan for  
a SCAR mission as  
strike aircraft in  
accordance with current  
tactical doctrine

1.1.2.6.1.3.1.1

State the tactical  
considerations for  
planning a SCAR mission  
with no omissions

1.1.2.6.1.3.1.1.1

Accomplish premission  
planning for specific  
A-S missions (Page:105)  
1.1.2.6.1.5

Plan for close air  
support missions (C)  
1.1.2.6.1.5.1

Given a mission  
assignment and  
relevant mission  
data, plan for a close  
air support mission in  
accordance with current  
tactical doctrine  
(Page:110)  
1.1.2.6.1.5.2.1

Plan for close air  
support missions (C)  
(Page:109)

1.1.2.6.1.3.2

Given a mission  
assignment and relevant  
mission data, plan for  
a close air support  
mission in accordance  
with current tactical  
doctrine

1.1.2.6.1.3.2.1

State the tactical  
considerations for  
planning a close air  
support mission with no  
omissions

1.1.2.6.1.3.2.1.1

Accomplish premission  
planning for specific  
A-5 missions (Page:105)  
1.1.2.6.1.3

Plan for hunter-killer  
missions (C)  
1.1.2.6.1.3.3

Given a mission  
assignment and  
relevant mission  
data, plan for a  
hunter-killer mission  
IAW current tactical  
doctrine (Page:112)  
1.1.2.6.1.3.3.1

Plan for hunter-killer  
missions (C) (Page:111)  
1.1.2.6.1.3.3

Given a mission  
assignment and relevant  
mission data, plan for  
a hunter-killer mission  
IAW current tactical  
doctrine  
1.1.2.6.1.3.3.1

State the tactical  
considerations for  
planning a  
hunter-killer mission  
with no omissions.  
1.1.2.6.1.3.3.1.1

Accomplish premission  
planning for specific  
A-5 missions (Page:103)  
1.1.2.6.1.3

Plan for air-to-surface  
escort missions (C)  
1.1.2.6.1.3.4

Given a mission  
assignment and  
relevant mission  
data, plan for an  
air-to-surface escort  
mission IAW current  
tactical doctrine.  
(Page:114)  
1.1.2.6.1.3.4.1

Plan for air-to-surface  
escort missions (C)  
(Page:113)

1.1.2.6.1.3.4

Given a mission  
assignment and relevant  
mission data, plan for  
an air-to-surface  
escort mission IAW  
current tactical  
doctrine.

1.1.2.6.1.3.4.1

State the tactical  
considerations for  
planning air-to-surface  
escort mission with no  
omissions.

1.1.2.6.1.3.4.1.1

Accomplish premission  
planning for specific  
A-S missions (Page:105)  
1.1.2.6.1.3

Plan for day  
interdiction missions  
1.1.2.6.1.3.5

Given a mission  
assignment and  
relevant mission  
data, plan for a day  
interdiction mission  
IAW current tactical  
doctrine. (Page:116)  
1.1.2.6.1.3.5.1

Plan for day  
interdiction missions  
(Page:115)

1.1.2.6.1.3.5

Given a mission  
assignment and relevant  
mission data, plan for  
a day interdiction  
mission IAW current  
tactical doctrine.

1.1.2.6.1.3.5.i

State the tactical  
considerations for  
planning a day  
interdiction mission  
with no omissions.

1.1.2.6.1.3.5.1.1

Accomplish premission  
planning for specific  
A-5 missions (Page:105)  
1.1.2.6.1.3

Plan for armed recce  
missions

1.1.2.6.1.3.6

Given a mission  
assignment and  
relevant mission  
data, plan for an armed  
recce mission IAW  
current tactical  
doctrine (Page:118)

1.1.2.6.1.3.6.1

Plan for armed recce  
missions (Page:117)

1.1.2.6.1.3.6

Given a mission  
assignment and relevant  
mission data, plan for  
an armed recce mission  
IAW current tactical  
doctrine

1.1.2.6.1.3.6.1

State the tactical  
considerations for  
planning armed recce  
mission with no  
omissions.

1.1.2.6.1.3.6.1.1

Accomplish premission  
planning for specific  
A-5 missions (Page:105)  
1.1.2.6.1.3

Plan for night  
air-to-surface missions  
1.1.2.6.1.3.7

Given a mission  
assignment and  
relevant mission  
data, plan for a night  
air-to-surface mission  
IAW current tactical  
doctrine. (Page:120)  
1.1.2.6.1.3.7.1

Plan for night  
air-to-surface missions  
(Page:119)

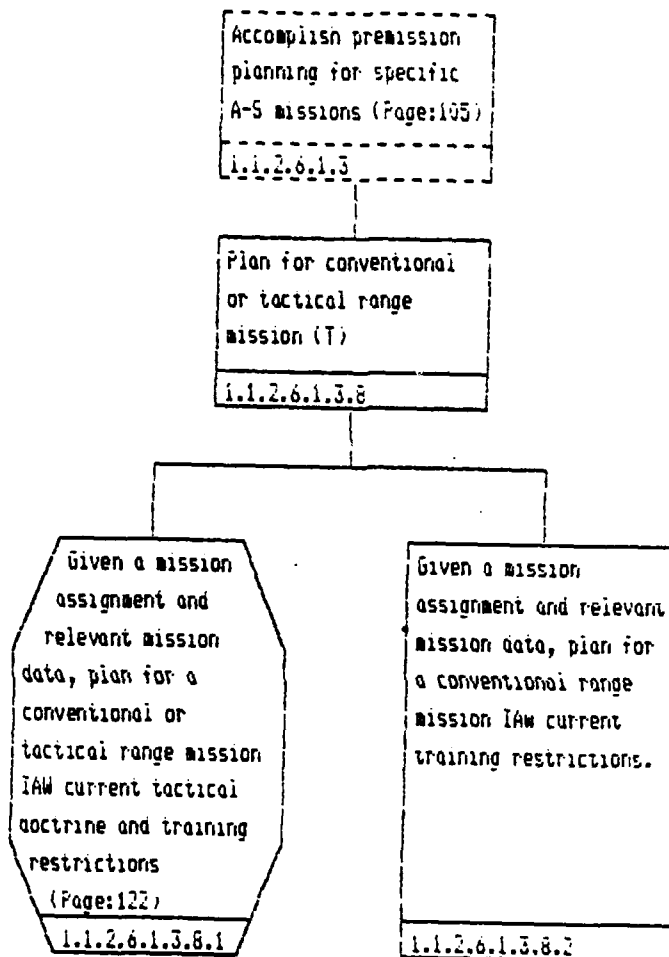
1.1.2.6.1.3.7

Given a mission  
assignment and relevant  
mission data, plan for  
a night air-to-surface  
mission IAW current  
tactical doctrine.

1.1.2.6.1.3.7.1

State the tactical  
considerations for  
planning a night  
air-to-surface mission  
with no omissions.

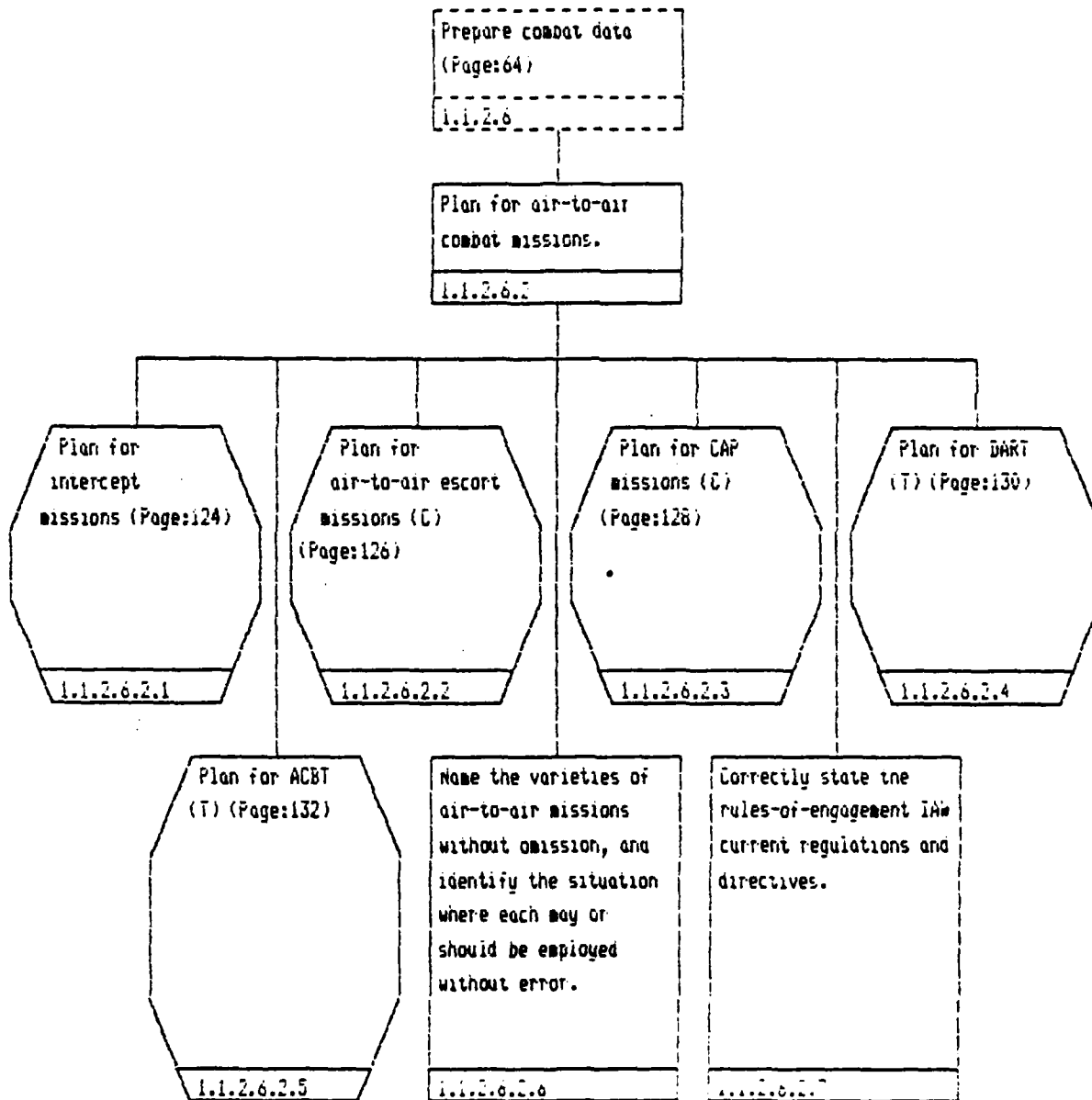
1.1.2.6.1.3.7.1.1



Plan for conventional  
or tactical range  
mission (T) (Page:121)  
1.1.2.6.1.3.8

Given a mission  
assignment and relevant  
mission data, plan for  
a conventional or  
tactical range mission  
IAW current tactical  
doctrine and training  
restrictions  
1.1.2.6.1.3.8.1

State the tactical  
considerations for  
planning a conventional  
or tactical range  
mission with no  
omissions.  
1.1.2.6.1.3.8.1.1



Plan for air-to-air  
combat missions.  
(Page:123)  
1.1.2.6.2

Plan for intercept  
missions  
1.1.2.6.2.1

Given a  
mission  
assignment and  
relevant mission data,  
plan for an intercept  
mission IAW current  
doctrine and  
regulations. (Page:125)  
1.1.2.6.2.1.1

Plan for intercept  
missions (Page:124)

1.1.2.6.2.1

Given a mission  
assignment and relevant  
mission data, plan for  
an intercept mission  
IAW current doctrine  
and regulations.

1.1.2.6.2.1.1

State the primary  
principles in planning  
an intercept mission  
IAW the Phase manual  
with no omissions

1.1.2.6.2.1.1.1

Plan for air-to-air  
combat missions.  
(Page:123)  
1.1.2.6.2

Plan for air-to-air  
escort missions (C).  
1.1.2.6.2.2

Given a mission  
assignment and  
relevant mission  
data plan for an  
air-to-air escort  
mission. (Page:127)  
1.1.2.6.2.2.1

Plan for air-to-air  
escort missions (C)  
(Page:126)  
1.1.2.6.2.2

Given a mission  
assignment and relevant  
mission data plan for  
an air-to-air escort  
mission.  
1.1.2.6.2.2.1

State the primary  
principles in planning  
an air-to-air escort  
mission with no  
omissions.  
1.1.2.6.2.2.1.1

Plan for air-to-air  
combat missions.  
(Page:123)  
1.1.2.6.2

Plan for CAP missions  
(C)  
1.1.2.6.2.3

Given a mission  
assignment and  
relevant mission  
data, plan for a CAP  
mission. (Page:129)  
1.1.2.6.2.3.1

Plan for CAP missions  
(C) (Page:128)  
1.1.2.6.2.3

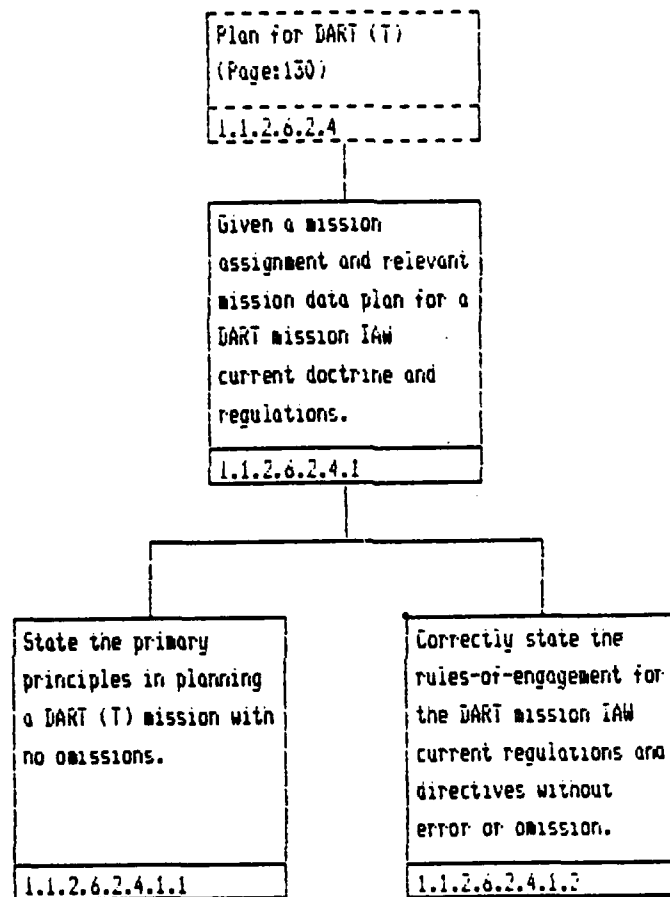
Given a mission  
assignment and relevant  
mission data, plan for  
a CAP mission.  
1.1.2.6.2.3.1

State the primary  
principles in planning  
a CAP mission with no  
omissions.  
1.1.2.6.2.3.1.1

Plan for air-to-air  
combat missions.  
(Page:123)  
1.1.2.6.2

Plan for DART (T)  
1.1.2.6.2.4

Given a mission  
assignment and  
relevant mission  
data plan for a IAWT  
mission IAW current  
doctrine and  
regulations. (Page:131)  
1.1.2.6.2.4.1



Plan for air-to-air  
combat missions.  
(Page:123)

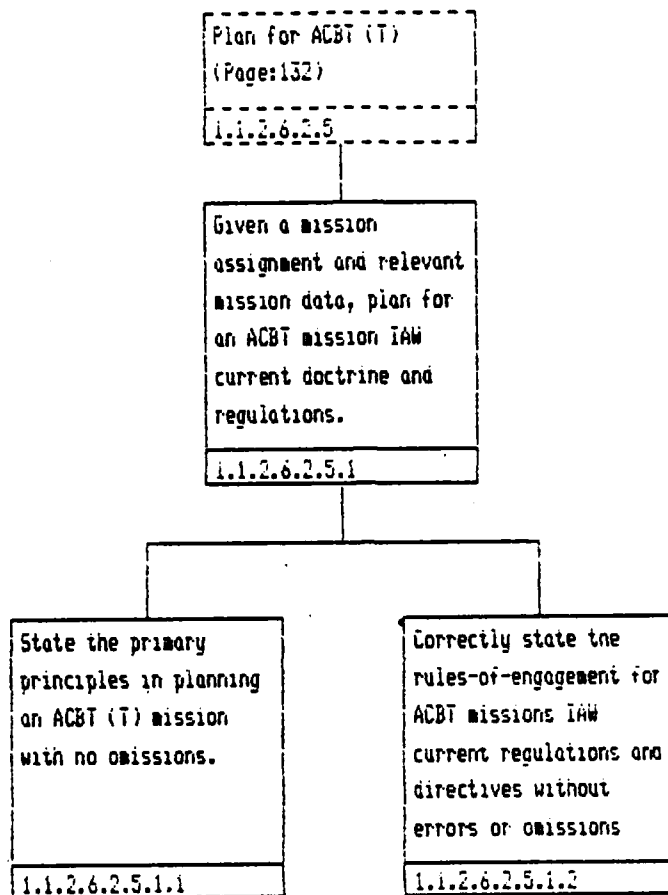
1.1.2.6.2

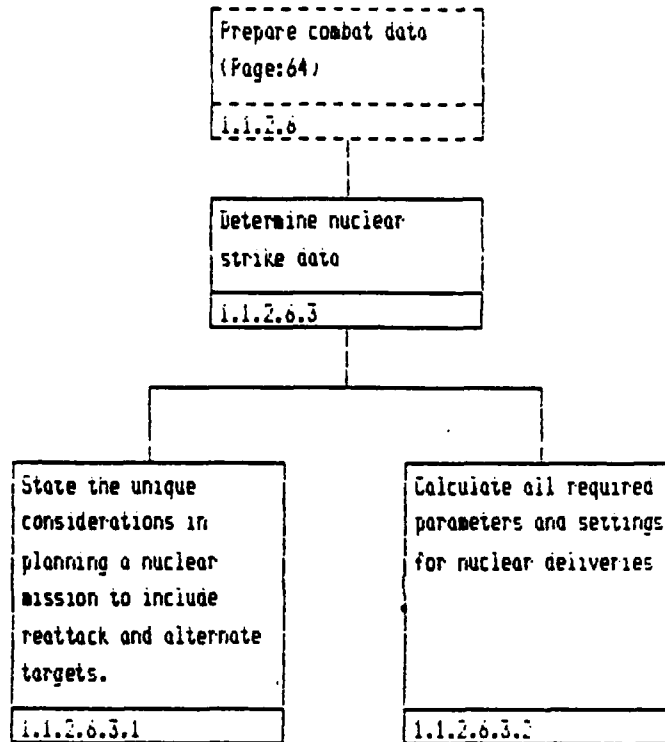
Plan for ACBT (T)

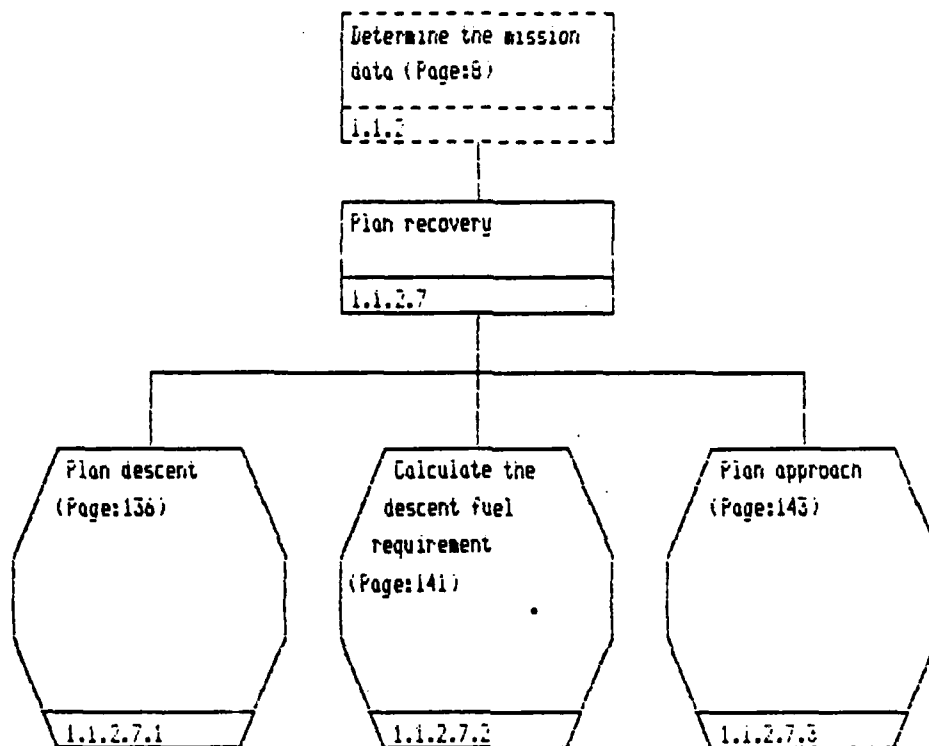
1.1.2.6.2.5

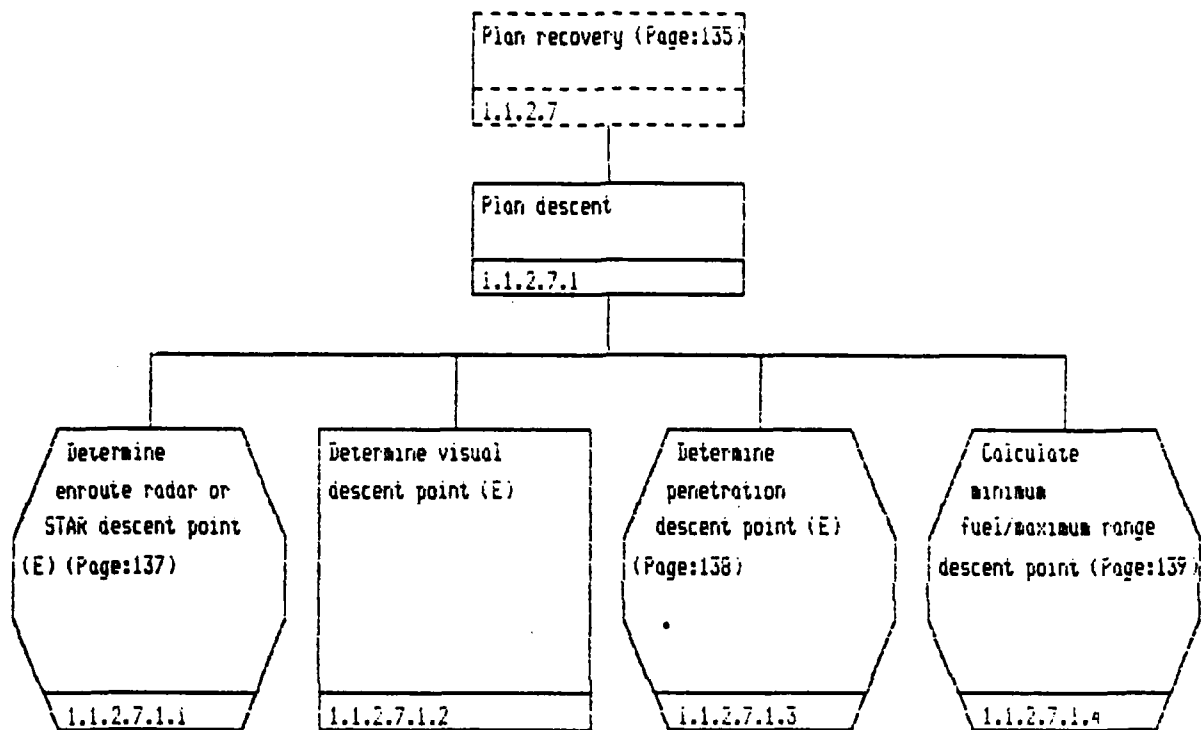
Given a mission  
assignment and  
relevant mission  
data, plan for an ACBT  
mission IAW current  
doctrine and  
regulations. (Page:133)

1.1.2.6.2.5.1









Plan descent (Page:136)

1.1.2.7.1

Determine enroute radar  
or STAR descent point  
(E)

1.1.2.7.1.1

Given a mission  
assignment and relevant  
mission information,  
determine enroute radar  
or STAR descent point  
(E)

1.1.2.7.1.1.1

Plan descent (Page:136)

1.1.2.7.1

Determine penetration  
descent point (E)

1.1.2.7.1.3

Given a mission  
assignment and relevant  
mission information,  
determine penetration  
point (E) without error

1.1.2.7.1.3.1

Plan descent (Page:136)  
1.1.2.7.1

Calculate minimum  
fuel/maximum range  
descent point  
1.1.2.7.1.4

Given a mission  
assignment and  
relevant mission  
information, calculate  
the minimum  
fuel/maximum range  
descent point within  
± 10 percent.  
(Page:140)  
1.1.2.7.1.4.1

Calculate minimum  
fuel/maximum range  
descent point (Page:139)  
1.1.2.7.1.4

Given a mission  
assignment and relevant  
mission information,  
calculate the minimum  
fuel/maximum range  
descent point within  
+/- 10 percent.  
1.1.2.7.1.4.1

Describe the procedure  
for calculating the  
minimum fuel/maximum  
range descent point  
with no omissions.  
1.1.2.7.1.4.1.1

Plan recovery (Page:135)  
1.1.2.7

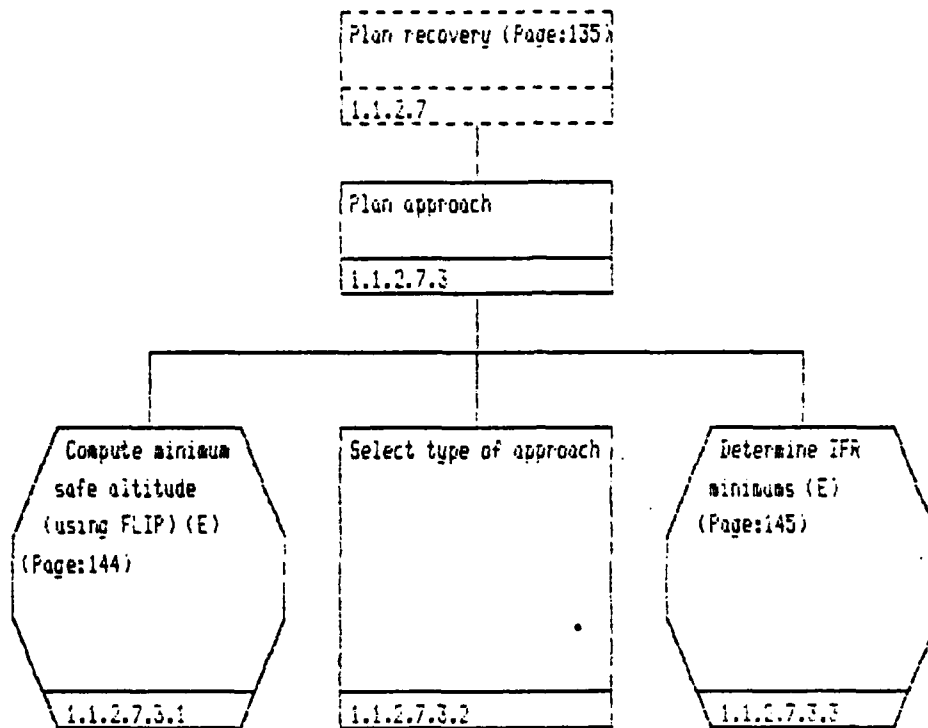
Calculate the descent  
fuel requirement  
1.1.2.7.2

Given a mission  
assignment and  
relevant mission  
information, calculate  
the descent fuel \*  
requirement within +/-  
10 percent. (Page:142)  
1.1.2.7.2.1

Calculate the descent  
fuel requirement  
(Page:141)  
1.1.2.7.3

Given a mission  
assignment and relevant  
mission information,  
calculate the descent  
fuel requirement within  
 $\pm 10$  percent.  
1.1.2.7.2.1

Describe the procedure  
for calculating descent  
fuel with no omissions.  
1.1.2.7.2.1.1



Plan approach (Page:143)

1.1.2.7.3

Compute minimum safe  
altitude (using FLIP)  
(E)

1.1.2.7.3.1

Given a mission  
assignment and relevant  
mission information,  
compute minimum safe  
altitude (using FLIP)  
(E) without error.

1.1.2.7.3.1.1

Plan approach (Page:143)

1.1.2.7.3

Determine IFR minimums  
(E)

1.1.2.7.3.3

Given an approach  
plate, IFR supplement,  
and aircraft category  
code, determine IFR  
minimums (E) for each  
type approach without  
error.

1.1.2.7.3.3.1

Determine the mission  
data (Page:8)

1.1.2

Compute landing data  
for primary and  
alternate airfields

1.1.2.8

Given a mission  
assignment and  
relevant mission  
information, compute  
landing data for  
primary and alternate  
airfields. (Page:147)

1.1.2.8.1

Compute landing data  
for primary and  
alternate airfields  
(Page:146)

1.1.2.8

Given a mission  
assignment and relevant  
mission information.  
compute landing data  
for primary and  
alternate airfields.

1.1.2.8.1

Describe the procedure  
for computing landing  
data with no omissions.

1.1.2.8.1.1

Perform mission  
planning (Page:3)

1.1

Record data on mission  
data card

1.1.3

List the items of  
information required on  
the mission data card  
for each type of  
mission with no  
omissions.

1.1.3.1

Perform mission  
planning (Page:3)  
1.1

Perform mission  
briefing (flight lead)  
1.1.5

Given a mission  
assignment and  
relevant mission  
information, brief the  
mission (IP judgement).  
(Page:150)  
1.1.5.1

Perform mission  
briefing (flight lead)  
(Page:149)

1.1.5

Given a mission  
assignment and relevant  
mission information,  
brief the mission (IP  
judgement).

1.1.5.1

Describe the procedure  
for planning a mission  
briefing and name the  
considerations of most  
importance, with no  
omissions.

1.1.5.1.1

---

1.2 Perform takeoff procedures [Hands-on]

1.2.1 Perform normal takeoff procedures [Hands-on]

1.2.1.1 Prepare/check personal equipment [Hands-on]

1.2.1.1.1 Given personal equipment, identify unacceptable conditions and determine appropriate action in accordance with regulations [Academic]

1.2.1.2 Perform preflight checks [Hands-on]

1.2.1.2.1 Check AFTO Form 781 (E) [Hands-on]

1.2.1.2.2 Perform exterior inspection-aircraft [Hands-on]

1.2.1.2.2.1 Match exterior A/C inspection checklist items with their associated notes, warnings, cautions, limits, tolerances and critical values without error. [Academic]

1.2.1.2.3 Perform exterior inspection-munitions (conventional) [Hands-on]

1.2.1.2.3.1 Inspect M61A1 gun [Hands-on]

1.2.1.2.3.1.1 Match gun checklist items with their associated notes, warnings, cautions, tolerances, limits, and critical values without error. [Academic]

1.2.1.2.3.2 Inspect chaff/flare dispenser [Hands-on]

1.2.1.2.3.2.1 Match chaff/flare dispenser checklist items with their associated notes, warnings, cautions, tolerances, limits, and critical values without error. [Academic]

1.2.1.2.3.3 Inspect suspension equipment [Hands-on]

1.2.1.2.3.3.1 Inspect wing and centerline pylons [Hands-on]

1.2.1.2.3.3.1.1 Match wing and centerline pylon checklist items with their associated notes, warnings, cautions, tolerances, limits, and critical values without error. [Academic]

1.2.1.2.3.3.2 Inspect BRU-31/A bomb rack unit [Hands-on]

1.2.1.2.3.3.2.1 Match BRU 31/A checklist items with their associated notes, warnings, cautions, tolerances, limits, and critical values without error. [Academic]

1.2.1.2.3.4 Inspect weapons [Hands-on]

1.2.1.2.3.4.1 Inspect AIM-9J missile and launcher [Hands-on]

1.2.1.2.3.4.1.1 Match AIM-9J missile and launcher checklist items with their associated notes, warnings, cautions, tolerances, limits, and critical values. [Academic]

1.2.1.2.3.4.2 Inspect AIM-9L missile and launcher [Hands-on]

1.2.1.2.3.4.2.1 Match AIM-9L missile and launcher checklist items with their associated notes, warnings, cautions, tolerances, limits, and critical values without error. [Academic]

1.2.1.2.3.4.3 Inspect MK 82 and MK 84 low drag general purpose bombs [Hands-on]

1.2.1.2.3.4.3.1 Match MK 82 and MK 84 LDGP bombs checklist items with their associated notes, warnings, cautions, tolerances, limits, and critical values without error. [Academic]

1.2.1.2.3.4.4 Inspect MK 82 (Snakeye I) and MK 36 high drag bombs (C) [Hands-on]

1.2.1.2.3.4.4.1 Match MK 82 and MK 36 HDGP bombs checklist items with their associated notes, warnings, cautions, tolerances, limits, and critical values without error. [Academic]

1.2.1.2.3.4.5 Inspect GBU-8/B EO guided bomb (C) [Hands-on]

1.2.1.2.3.4.5.1 Match GBU-8/B checklist items with their associated notes, warnings, cautions, tolerances, limits, and critical values without error. [Academic]

1.2.1.2.3.4.6 Inspect GBU-10/B, GBU-10A/B laser guided bombs (C) [Hands-on]

1.2.1.2.3.4.6.1 Match GBU-10/B, GBU-10A/B checklist items with their associated notes, warnings, cautions, tolerances, limits, and critical values without error. [Academic]

1.2.1.2.3.4.7 Inspect CBU-58/B and CBU-71/B dispensers and bombs (C) [Hands-on]

1.2.1.2.3.4.7.1 Match CBU-58/B, and CBU-71/B checklist items with their associated notes, warnings, cautions, tolerances, limits and critical values without error. [Academic]

1.2.1.2.3.4.8 Inspect MK 20 MOD 4 antitank cluster bomb (C) [Hands-on]

1.2.1.2.3.4.8.1 Match MK 20 MOD 4 checklist items with their associated notes, warnings, cautions, tolerances, limits, and critical values without error. [Academic]

1.2.1.2.3.4.9 Inspect BLU-27/B fire bomb (C) [Hands-on]

1.2.1.2.3.4.9.1 Match BLU-27/B checklist items with their associated notes, warnings, cautions, tolerances, limits, and critical values without error. [Academic]

1.2.1.2.3.4.10 Inspect SUU-25C/A flare dispenser [Hands-on]

1.2.1.2.3.4.10.1 Match SUU-25C/A checklist items with their associated notes, warnings, cautions, tolerances, limits, and critical values without error. [Academic]

1.2.1.2.3.4.11 Inspect LAU-3/A rocket launcher (C) [Hands-on]

1.2.1.2.3.4.11.1 Match LAU-3A checklist items with their associated notes, warnings, cautions, tolerances, limits, and critical values without error. [Academic]

1.2.1.2.3.4.12 Inspect AGM-65A,B air-to-ground guided missile (C) [Hands-on]

1.2.1.2.3.4.12.1 Match AGM-65A,B checklist items with their associated notes, warnings, cautions, tolerances, limits and critical values without error. [Academic]

1.2.1.2.3.4.13 Inspect SUU-20B/A bomb and rocket training dispenser (T) [Hands-on]

1.2.1.2.3.4.13.1 Match SUU-20B/A checklist items with their associated notes, warnings, cautions, tolerances, limits, and critical values without error. [Academic]

1.2.1.2.3.4.14 Inspect BDU-33B/B practice bomb on BRU-31/A or TER-9A bomb rack (T) [Hands-on]

1.2.1.2.3.4.14.1 Match BDU-33B/B checklist items with their associated notes, warnings, cautions, tolerances, limits, and critical values without error. [Academic]

1.2.1.2.3.5 Describe the procedure for performing exterior conventional munitions inspections using -34 checklist and name the considerations of most importance with no omissions. [Academic]

1.2.1.2.4 Inspect ACMI pod (T) [Hands-on]

1.2.1.2.5 Perform before entering cockpit checks [Hands-on]

1.2.1.2.5.1 Given a suitable hands-on trainer, perform before entering cockpit checks. [Academic]

1.2.1.2.5.1.1 Inspect ejection seat [Hands-on]

1.2.1.2.5.1.1.1 Match ejection seat inspection checklist items with their associated notes, warnings, cautions, tolerances, limits, and critical values without error. [Academic]

1.2.1.2.5.2 Configure switches in back seat for solo flight [Hands-on]

1.2.1.2.5.2.1 Match before entering cockpit checklist items with their associated notes, cautions, warnings, tolerances, limits, and/or critical values without error. [Academic]

1.2.1.2.5.3 Inspect chaff/flare programmer and control panel [Hands-on]

1.2.1.2.5.3.1 Match chaff/flare programmer and control checklist items with their associated notes, warnings, cautions, tolerances, limits, and critical values without error [Academic]

1.2.1.3 Perform cockpit ingress, including strap-in [Hands-on]

1.2.1.3.1 Describe the cockpit ingress procedure, including strap-in, with its associated notes, cautions, warnings, critical values, tolerances and limits. [Academic]

1.2.1.4 Perform cockpit interior check (power off) [Hands-on]

1.2.1.4.1 Match cockpit interior checklist items with their associated notes, cautions, warnings, tolerances, limits and critical values without error. [Academic]

1.2.1.4.2 Given a suitable hands-on trainer, perform cockpit interior check (power off) in a comm out environment in the correct order without omissions. [Academic]

1.2.1.5 Perform before starting engine check [Hands-on]

1.2.1.5.1 Match before starting engine checklist items with their associated notes, cautions, warnings, tolerances, limits and critical values without error; after cockpit check is complete--verify. [Academic]

1.2.1.5.2 Given a suitable hands-on trainer, perform before starting engine check in a cockpit environment in the correct order without omissions. [Academic]

1.2.1.6 Perform JFS/engine start [Hands-on]

1.2.1.6.1 Perform normal engine start [Hands-on]

1.2.1.6.1.1 Describe the steps in the procedure for normal engine start in correct order with the associated notes, cautions, warnings, critical values, tolerances and limits with no omissions. [Academic]

1.2.1.6.1.1.1 System workbook--engine system. [Academic]

1.2.1.6.1.1.1.1 Describe the engine system in the F-16A and F-16B aircraft. [Academic]

1.2.1.6.1.1.1.2 List with no omissions and describe without error the components and/or functions of the engine system, including as appropriate the sequence and modes of internal and external operation. [Academic]

1.2.1.6.1.1.1.3 Given a photograph or drawing of the aircraft cockpit, locate and describe the function and manipulation of each control that directly affects the engine system, without error. [Academic]

1.2.1.6.1.1.1.4 Given a photograph or drawing of the aircraft cockpit, locate and describe the interpretation of each indicator that monitors the engine system, without error. [Academic]

1.2.1.6.1.1.1.5 State the possible modes of engine system degradation, and describe their causes and consequences, without error. [Academic]

1.2.1.6.1.1.1.6 List with no omissions and describe without error any features of the engine system in the F-16B that differ or are in addition to those in the F-16A. [Academic]

1.2.1.6.1.2 Given a suitable hands-on trainer, perform normal (JFS) engine start. [Academic]

1.2.1.6.2 Identify and respond to premature JFS cutout [Hands-on]

1.2.1.6.2.1 Given indications occurring during JFS cutout, identify the specific problem without error. [Academic]

1.2.1.6.2.2 State the steps in the corrective procedure for premature JFS cutout in correct order with no omissions. [Academic]

1.2.1.6.2.3 Given a suitable hands-on trainer, identify and respond to premature JFS cutout. [Academic]

1.2.1.6.3 Identify and respond to engine failure to start [Hands-on]

1.2.1.6.3.1 Given indications occurring during engine failure to start, identify the specific problem without error. [Academic]

1.2.1.6.3.2 State the steps in the corrective procedure for engine failure to start in correct order with no omissions. [Academic]

1.2.1.6.3.3 Given a suitable hands-on trainer, identify and respond to engine failure to start. [Academic]

1.2.1.6.4 Identify and respond to hung start [Hands-on]

1.2.1.6.4.1 Given indications occurring during hung start, identify the specific problem without error. [Academic]

1.2.1.6.4.2 State the steps in the corrective procedure for hung start in correct order with no omissions. [Academic]

1.2.1.6.4.3 Given a suitable hands-on trainer, identify and respond to hung start. [Academic]

1.2.1.6.5 Identify and respond to hot start [Hands-on]

1.2.1.6.5.1 Given indications occurring during hot start, identify the specific problem without error. [Academic]

1.2.1.6.5.2 State the steps in the corrective procedure for hot start in correct order without omissions. [Academic]

1.2.1.6.5.3 Given a suitable hands-on trainer, identify and respond to hot start. [Academic]

1.2.1.6.6 Perform external power start [Hands-on]

1.2.1.6.6.1 Describe the steps in the procedure for external power start in correct order with the associated notes, cautions, warnings, critical values, tolerances and limits with no omissions. [Academic]

1.2.1.6.6.2 Given a suitable hands-on trainer, perform external power start. [Academic]

1.2.1.7 Perform after engine start checks [Hands-on]

1.2.1.7.1 Perform FCS self-test [Hands-on]

1.2.1.7.1.1 Given the FCS self-test checklist table and a set of cockpit indications, state correctly whether the test is proceeding normally. [Academic]

1.2.1.7.1.2 State the associated notes, cautions, warnings, critical values, tolerances and limits for FCS self-test procedure with no omissions. [Academic]

1.2.1.7.1.3 Given indication occurring during a FCS self-test, identify test failures without error. [Academic]

1.2.1.7.1.4 State the corrective procedure to be used following FCS self-test failure without error. [Academic]

1.2.1.7.1.5 Given a suitable hands-on trainer, perform FCS self-test. [Academic]

1.2.1.7.2 Perform SMS setup [Hands-on]

1.2.1.7.2.1 Perform SMS stores loading verification (SMS inventory) [Hands-on]

1.2.1.7.2.1.1 State the associated notes, cautions, warnings, critical values, tolerance and limits for SMS stores loading verification procedure with no omissions. [Academic]

1.2.1.7.2.1.2 Given SMS inventory data indicating an incorrect loading, select the procedure necessary to correct the loading without error. [Academic]

1.2.1.7.2.2 Perform SMS loading [Hands-on]

1.2.1.7.2.2.1 Perform CONV loading [Hands-on]

1.2.1.7.2.2.1.1 State the associated notes, cautions, warnings, critical values, tolerances, and limits for conventional loading procedure with no omissions. [Academic]

1.2.1.7.2.2.2 Perform RACK loading [Hands-on]

1.2.1.7.2.2.2.1 State the associated notes, cautions, warnings, critical values, tolerances, and limits for RACK loading procedure with no omissions. [Academic]

1.2.1.7.2.2.3 Perform PRGM loading [Hands-on]

1.2.1.7.2.2.3.1 State the associated notes, cautions, warnings, critical values, tolerances and limits for PRGM loading procedure with no omissions. [Academic]

1.2.1.7.2.3 Perform air-to-surface attack modification (profile munitions) [Hands-on]

1.2.1.7.2.3.1 Perform delivery mode modification [Hands-on]

1.2.1.7.2.3.1.1 Describe the steps in the procedure for delivery mode modification in correct order with the associated notes, cautions, warnings, critical values, tolerances and limits with no omissions. [Academic]

1.2.1.7.2.3.2 Perform release option modification [Hands-on]

1.2.1.7.2.3.2.1 Describe the steps in the procedure for release option modification in correct order with the associated notes, warnings, cautions, critical values, tolerances and limits with no omissions. [Academic]

1.2.1.7.2.3.3 Perform impact separation modification [Hands-on]

1.2.1.7.2.3.3.1 Describe the steps in the procedure for impact separation modification in correct order with the associated notes, cautions, warnings, critical values, tolerances and limits with no omissions. [Academic]

1.2.1.7.2.3.4 Perform arming option modification [Hands-on]

1.2.1.7.2.3.4.1 Describe the steps in the procedure for arming option modification in correct order with the associated notes, cautions, warnings, critical values, tolerances and limits with no omissions. [Academic]

1.2.1.7.2.3.5 Perform number of releases modification [Hands-on]

1.2.1.7.2.3.5.1 Describe the steps in the procedure for number of releases modification in correct order with the associated notes, cautions, warnings, critical values, tolerances and limits with no omissions. [Academic]

1.2.1.7.2.3.6 Perform preselection of weapon - air-to-surface mode [Hands-on]

1.2.1.7.2.3.6.1 Describe the steps in the procedure for preselection of weapon--air-to-surface mode--in correct order with the associated notes, cautions, warnings, critical values, tolerances and limits with no omissions. [Academic]

1.2.1.7.2.3.7 Describe the steps in the procedure for air-to-surface attack modification in correct order with no omissions. [Academic]

1.2.1.7.2.4 Given a suitable hands-on trainer, perform SMS setup. [Academic]

1.2.1.7.2.5 Describe the steps in SMS setup in correct order with no omissions. [Academic]

1.2.1.7.2.5.1 System Workbook--Stores management system [Academic]

1.2.1.7.2.5.1.1 Describe the stores management system in the F-16A and F-16B aircraft. [Academic]

1.2.1.7.2.5.1.2 List with no omissions and describe without error the components and/or functions of the stores management system, including as appropriate the sequence and modes of internal and external operation. [Academic]

1.2.1.7.2.5.1.3 Given a photograph or drawing of the aircraft cockpit, locate and describe the function and manipulation of each control that directly affects the stores management system, without error. [Academic]

1.2.1.7.2.5.1.4 Given a photograph or drawing of the aircraft cockpit, locate and describe the interpretation of each indicator that monitors the stores management system without error. [Academic]

1.2.1.7.2.5.1.5 State the possible modes of stores management system degradation, and describe their causes and consequences, without error. [Academic]

1.2.1.7.2.5.1.6 List with no omissions and describe without error any features of the stores management system in the F-16B that differ or are in addition to those in the F-16A [Academic]

1.2.1.7.3 Perform FCNP setup [Hands-on]

1.2.1.7.3.1 Perform normal INS (gyrocompass) alignment [Hands-on]

1.2.1.7.3.1.1 Enter present position on FCNP [Hands-on]

1.2.1.7.3.1.1.1 Describe the steps in the procedure for entering present position on FCNP in correct order with the associated notes, cautions, warnings, critical values, tolerances and limits with no omissions. [Academic]

1.2.1.7.3.1.2 Enter manual magnetic variation on FCNP [Hands-on]

1.2.1.7.3.1.2.1 Describe the steps in the procedure for entering manual variation on FCNP in correct order with the associated notes, cautions, warnings, critical values, tolerances and limits with no omissions. [Academic]

1.2.1.7.3.1.3 Monitor alignment status on FCNP [Hands-on]

1.2.1.7.3.1.3.1 Describe the steps in the procedure for monitoring alignment status on FCNP with the associated notes, cautions, warnings, critical values, tolerances and limits with no omissions. [Academic]

- 1.2.1.7.3.1.4 Match gyrocompass alignment (INS Preflight Procedures) checklist items with their associated notes, cautions, warnings, tolerances, limits and/or critical values without error in accordance with -34, -1. [Academic]
- 1.2.1.7.3.2 Given a suitable hands-on trainer, perform FCNP setup [Academic]
  - 1.2.1.7.3.2.1 Perform a stored heading alignment [Hands-on]
    - 1.2.1.7.3.2.1.1 Match stored heading alignment (INS preflight procedures) checklist items with their associated notes, cautions, warnings, tolerances, limits and/or critical values without error in accordance with -34, -1. [Academic]
- 1.2.1.7.3.3 Perform a Best Available True Heading (BATH) alignment [Hands-on]
  - 1.2.1.7.3.3.1 Match Best Available True Heading (BATH) alignment (INS preflight procedures) checklist items with their associated notes, cautions, warnings, tolerances, limits and/or critical values without error in accordance with -34, -1. [Academic]
- 1.2.1.7.3.4 Enter destination data [Hands-on]
  - 1.2.1.7.3.4.1 Enter destination coordinates [Hands-on]
    - 1.2.1.7.3.4.1.1 Describe the steps in the procedure for entering destination coordinates in correct order with no omissions. [Academic]
  - 1.2.1.7.3.4.2 Enter destination elevation [Hands-on]
    - 1.2.1.7.3.4.2.1 Describe the steps in the procedure for entering destination elevation in correct order with no omissions. [Academic]
  - 1.2.1.7.3.4.3 Enter offset aimpoint data [Hands-on]
    - 1.2.1.7.3.4.3.1 Describe the steps in the procedure for entering offset aimpoint data in correct order with no omissions. [Academic]
  - 1.2.1.7.3.4.4 Match Destination Data Entry FCNP checklist items with their associated notes, cautions, warnings, tolerances, limits and/or critical values without error in accordance with -34. [Academic]
- 1.2.1.7.3.5 Perform computer time select (C) [Hands-on]
  - 1.2.1.7.3.5.1 Describe the steps in the procedure for computer time select in correct order with the associated notes, cautions, warnings, critical values, tolerances and limits for computer time selection procedure with no omissions. [Academic]
- 1.2.1.7.3.6 Perform cursor zero [Hands-on]
  - 1.2.1.7.3.6.1 Match cursor zero (INS preflight procedures) checklist items with their associated notes, cautions, warnings, tolerances, limits and/or critical values without error in accordance with -1. [Academic]
- 1.2.1.7.3.7 Perform D-value altitude calibration [Hands-on]
  - 1.2.1.7.3.7.1 Match D-value altitude calibration (INS preflight procedures) checklist items with their associated notes, cautions, warnings, tolerances, limits and/or critical values without error in accordance with -1. [Academic]

1.2.1.7.3.8 Perform maintenance fault list (MFL) clearing [Hands-on]

1.2.1.7.3.8.1 Match Maintenance Fault List (MFL) clearing (INS preflight procedures) checklist items with their associated notes, cautions, warnings, tolerances, limits and/or critical values without error in accordance with -1. [Academic]

1.2.1.7.3.9 Enter beacon data using FCNP (C) [Hands-on]

1.2.1.7.3.9.1 Match Beacon Data Entry FCNP checklist items with their associated notes, cautions, warnings, tolerances, limits and/or critical values without error in accordance with -34. [Academic]

1.2.1.7.3.10 Enter TISL code using FCNP (C) [Hands-on]

1.2.1.7.3.10.1 Match TISL Data Entry FCNP checklist items with their associated notes, cautions, warnings, tolerances, limits and/or critical values without error in accordance with -34. [Academic]

1.2.1.7.3.11 Perform energy management setup [Hands-on]

1.2.1.7.3.11.1 Enter bingo fuel on FCNP [Hands-on]

1.2.1.7.3.11.1.1 Describe the steps in the procedure for entering BINGO fuel on FCNP in correct order with the associated notes, cautions, warnings, critical values, tolerances and limits with no omissions. [Academic]

1.2.1.7.3.11.2 Enter home steerpoint [Hands-on]

1.2.1.7.3.12 Check OFF [Hands-on]

1.2.1.7.3.12.1 Describe the steps in the procedure for checking OFF in correct order with the associated notes, cautions, warnings, critical values, tolerances and limits with no omissions. [Academic]

1.2.1.7.3.13 Perform PFL/MFL recording and INS shutdown [Hands-on]

1.2.1.7.3.13.1 Describe the procedures for PFL/MFL recording and INS shutdown [Academic]

1.2.1.7.3.14 Describe the steps in the procedure for FCNP setup in correct order with no omissions. [Academic]

1.2.1.7.4 Perform REU setup [Hands-on]

1.2.1.7.4.1 Describe the steps in the procedure for performing REU setup in correct order with the associated notes, cautions, warnings, critical values, tolerances and limits with no omissions. [Academic]

1.2.1.7.5 Perform HUD setup [Hands-on]

1.2.1.7.5.1 Match Head Up Display (Initial Power Up) Checklist items with their associated notes, cautions, warnings, tolerances, limits and/or critical values without error in accordance with -34. [Academic]

1.2.1.7.6 Perform threat warning system check [Hands-on]

1.2.1.7.6.1 Match Threat warning System checklist items with their associated notes, cautions, warnings, tolerances, limits and/or critical values without error in accordance with -34.

1.2.1.7.7 Perform ECM equipment checks (if applicable) [Hands-on]

1.2.1.7.7.1 Describe the steps in the procedure for performing ECM equipment checks in correct order with no omissions. [Academic]

1.2.1.7.8 Perform secure voice check (C) [Hands-on]

1.2.1.7.8.1 Describe the steps in the procedure for performing the secure voice check in correct order with no omissions. [Academic]

1.2.1.7.9 Perform BIT checks via FCNP [Hands-on]

1.2.1.7.9.1 State the correct procedure for initiating built-in test (BIT) sequences via the FCNP in accordance with the checklist and/or Avionics Manual. [Academic]

1.2.1.7.10 Given a suitable hands-on trainer, perform after engine start checks [Academic]

1.2.1.7.11 Match after engine start checklist items with their associated notes, cautions, warnings, tolerances, limits and critical values without error [Academic]

1.2.1.8 Perform before taxi checks [Hands-on]

1.2.1.8.1 Match before taxi checklist items with their associated notes, cautions, warnings, tolerances, limits and/or critical values without error in accordance with -1. [Academic]

1.2.1.9 Perform taxi [Hands-on]

1.2.1.9.1 Perform taxi checks [Hands-on]

1.2.1.9.1.1 Match taxi checklist items with their associated notes, cautions, warnings, limits and/or critical values without error in accordance with -1. [Academic]

1.2.1.9.2 Perform single-ship taxi [Hands-on]

1.2.1.9.2.1 Describe the steps in the procedure for single-ship taxi in correct order with the associated notes, cautions, warnings, critical values, tolerances and limits with no omissions. [Academic]

1.2.1.9.2.1.1 System workbook--brake system. [Academic]

1.2.1.9.2.1.1.1 Describe the brake system in the F-16A and F-16B aircraft. [Academic]

1.2.1.9.2.1.1.2 List with no omissions and describe without error the components and/or functions of the brake system, including as appropriate the sequence and modes of internal and external operation. [Academic]

1.2.1.9.2.1.1.3 Given a photograph or drawing of the aircraft cockpit, locate and describe the function and manipulation of each control that directly affects the brake system, without error. [Academic]

1.2.1.9.2.1.1.4 Given a photograph or drawing of the aircraft cockpit, locate and describe the interpretation of each indicator that monitors the brake system, without error. [Academic]

1.2.1.9.2.1.1.5 State the possible modes of brake system degradation, and describe their causes and consequences, without error. [Academic]

1.2.1.9.2.1.1.6 List with no omissions and describe without error any features of the brake system in the F-16B that differ or are in addition to those in the F-16A. [Academic]

1.2.1.9.2.1.2 System workbook--NWS system. [Academic]

1.2.1.9.2.1.2.1 Describe the NWS system in the F-16A and F-16B aircraft [Academic]

1.2.1.9.2.1.2.2 List with no omissions and describe without error the components and/or functions of the NWS system, including as appropriate the sequence and mode of internal and external operation. [Academic]

1.2.1.9.2.1.2.3 Given a photograph or drawing of the aircraft cockpit, locate and describe the function and manipulation of each control that directly affects the NWS system, without error. [Academic]

1.2.1.9.2.1.2.4 Given a photograph or drawing of the aircraft cockpit, locate and describe the interpretation of each indicator that monitors the NWS system without error. [Academic]

1.2.1.9.2.1.2.5 State the possible modes of NWS system degradation, and describe the causes and consequences, without error. [Academic]

1.2.1.9.2.1.2.6 List with no omissions and describe without error any features of the NWS system in the F-16B that differ or are in addition to those in the F-16A. [Academic]

1.2.1.9.3 Perform formation taxi [Hands-on]

1.2.1.9.3.1 Describe the procedures and techniques for formation taxi in the F-16. [Academic]

1.2.1.10 Accomplish maintenance arming procedures/maintenance checks [Hands-on]

1.2.1.10.1 Describe the steps in the procedure for accomplishing maintenance arming procedures/maintenance checks in correct order with the associated notes, cautions, warnings, critical values, tolerances and limits with no omissions. [Academic]

1.2.1.11 Perform before takeoff checks [Hands-on]

1.2.1.11.1 Match before takeoff checklist items with their associated notes, cautions, warnings, tolerances, limits and/or critical values without error in accordance with -1. [Academic]

1.2.1.12 Take active runway [Hands-on]

1.2.1.12.1 Take active runway as a single ship (E) [Hands-on]

1.2.1.12.2 Take active runway as a formation (E) [Hands-on]

1.2.1.13 Perform lineup checks [Hands-on]

1.2.1.13.1 Perform lineup checks for single ship takeoff [Hands-on]

1.2.1.13.1.1 Describe the steps in the procedure for performing single ship lineup checks with associated tolerances, limits, and critical values without error. [Academic]

1.2.1.13.2 Perform lineup for formation takeoff [Hands-on]

- 1.2.1.13.2.1 Describe the procedures and techniques for formation lineup in the F-16. [Academic]
- 1.2.2 Perform night ground operations [Hands-on]
- 1.2.3 Perform adverse weather pretakeoff procedures [Hands-on]
  - 1.2.3.1 State the special considerations for performing adverse weather pretakeoff procedures with no omissions. [Academic]
- 1.2.4 Perform scramble pretakeoff procedures (C) [Hands-on]
  - 1.2.4.1 Perform scramble preflight checks (cock aircraft for alert) (C) [Hands-on]
    - 1.2.4.1.1 Describe the steps in the procedure for performing a scramble preflight check in correct order with the associated notes, cautions, warnings, critical values, tolerances, and limits with no omissions. [Academic]
  - 1.2.4.2 Perform scramble launch (aircraft on alert) procedures (C) [Hands-on]
    - 1.2.4.2.1 Describe the steps in the procedure for performing scramble launch in correct order with the associated notes, cautions, warnings, critical values, tolerances, and limits with no omissions. [Academic]
  - 1.2.4.3 Perform scramble taxi (C) [Hands-on]
    - 1.2.4.3.1 Describe the steps in the procedure for performing scramble taxi in correct order with the associated notes, cautions, warnings, critical values, tolerances and limits with no omissions. [Academic]
  - 1.2.4.4 Given a suitable hands-on trainer, perform scramble pretakeoff procedures [Academic]
- 1.2.5 Perform nuclear strike/alert pretakeoff procedures (C) [Hands-on]
  - 1.2.5.1 Perform preflight procedures-nuclear (T or C for actual WPN) [Hands-on]
    - 1.2.5.1.1 Check AFTO Form 781 (nuclear) (T or C for actual WPN) [Hands-on]
    - 1.2.5.1.2 Perform exterior inspection-aircraft (nuclear) (see perform exterior inspection-a/c) (T or C for actual WPN) [Hands-on]
    - 1.2.5.1.3 Perform exterior inspection - munitions (nuclear) (T or C for actual WPN) [Hands-on]
      - 1.2.5.1.3.1 Inspect MAU-12 C/A rack (nuclear) (T or C for actual WPN) [Hands-on]
        - 1.2.5.1.3.1.1 Match MAU-12 C/A rack (nuclear) checklist items with their associated notes, cautions, warnings, tolerances, limits and /or critical values without error in accordance with -25. [Academic]
      - 1.2.5.1.3.2 Inspect weapons (nuclear) (T or C for actual WPN) [Hands-on]
        - 1.2.5.1.3.2.1 Inspect B43 bomb (nuclear) (T or C for actual WPN) [Hands-on]
          - 1.2.5.1.3.2.1.1 Match B43 bomb (nuclear) checklist items with their associated notes, cautions, warnings, tolerances, limits and/or critical values without error in accordance with -25. [Academic]

1.2.5.1.3.2.2 Inspect B57 bomb (nuclear) (T or C for actual WPN) [Hands-on]

1.2.5.1.3.2.2.1 Match B57 bomb (nuclear) checklist items with their associated notes, cautions, warnings, tolerances, limits and/or critical values without error in accordance with -25. [Academic]

1.2.5.1.3.2.3 Inspect B61 bomb (nuclear) (T or C for actual WPN) [Hands-on]

1.2.5.1.3.2.3.1 Match B61 bomb (nuclear) checklist items with their associated notes, cautions, warnings, tolerances, limits and/or critical values without error in accordance with -25. [Academic]

1.2.5.1.4 Perform interior inspection (power off) - nuclear (T or C for actual WPN) [Hands-on]

1.2.5.1.4.1 Match interior inspection (power off)--nuclear checklist items with their associated notes, cautions, warnings, tolerances, limits and/or critical values without error in accordance with -25. [Academic]

1.2.5.1.5 Perform interior inspection (power on) - nuclear (T or C for actual WPN) [Hands-on]

1.2.5.1.5.1 Perform NUCSMS loading [Hands-on]

1.2.5.1.5.1.1 Describe the steps in the procedure for performing NUC loading with the associated notes, cautions, warnings, critical values, tolerances, and limits with no omissions. [Academic]

1.2.5.1.5.1.2 Given a suitable hands-on trainer, perform NUC loading. [Academic]

1.2.5.1.5.2 Match interior inspection (power on)--nuclear checklist items with their associated notes, cautions, warnings, tolerances, limits and/or critical values without error in accordance with -25. [Academic]

1.2.5.2 Perform ground alert procedures (nuclear) (C) [Hands-on]

1.2.5.2.1 Describe the procedure for performing ground alert procedures (NUC) and name the considerations of most importance with no omissions. [Academic]

1.2.5.3 Perform launch procedures (nuclear) (C) [Hands-on]

1.2.5.4 Given a suitable hands-on trainer, perform nuclear strike/alert pretakeoff procedures. [Academic]

1.2.6 Perform pretakeoff emergency procedures [Hands-on]

1.2.6.1 Perform engine-starting emergency procedures [Hands-on]

1.2.6.1.1 Accomplish emergency engine shutdown on ground [Hands-on]

1.2.6.1.1.1 Describe the steps in the procedure for emergency engine shutdown on ground in correct order with no omissions. [Academic]

1.2.6.1.2 Respond to JFS malfunction (no JFS RUN light) [Hands-on]

1.2.6.1.2.1 Given indications occurring during JFS malfunction (no JFS RUN light), identify the specific problem and state the correct response without error. [Academic]

1.2.6.1.2.2 State the steps in the corrective procedure for the 'No JFS RUN light' malfunction without error. [Academic]

1.2.6.1.3 Respond to JFS RUN light not going out [Hands-on]

1.2.6.1.3.1 Given indications occurring during JFS RUN light not going out, identify the specific problem without error. [Academic]

1.2.6.1.3.2 State the steps in the corrective procedure for the JFS RUN light not going out without error. [Academic]

1.2.6.1.4 Identify and respond to engine start overtemp [Hands-on]

1.2.6.1.4.1 Given indications occurring during engine start overtemp, identify the specific problem without error. [Academic]

1.2.6.1.4.2 State the steps in the corrective procedure for the engine start overtemp malfunction without error. [Academic]

1.2.6.1.5 Identify and respond to engine/JFS fire/overheat on start [Hands-on]

1.2.6.1.5.1 Given indications occurring during engine/JFS fire/overheat on start, identify the specific problem without error. [Academic]

1.2.6.1.5.2 State the steps in the corrective procedure for the engine/JFS fire/overheat on start without error. [Academic]

1.2.6.1.6 State the possible modes of engine system degradation, and describe their causes and consequences, without error. [Academic]

1.2.6.1.7 List with no omissions and describe without error any features of the engine system in the F-16B that differ or are in addition to those in the F-16A. [Academic]

1.2.6.2 Perform ground emergency procedures [Hands-on]

1.2.6.2.1 Perform emergency ground egress [Hands-on]

1.2.6.2.1.1 Describe the steps in the procedure for emergency ground egress in correct order with no omissions. [Academic]

1.2.6.2.1.1.1 Systems workbook--escape system [Academic]

1.2.6.2.1.1.1.1 Describe the escape system in the F-16A and F-16B aircraft. [Academic]

1.2.6.2.1.1.1.2 List with no omissions and describe without error the components and/or functions of the escape system, including as appropriate the sequence and modes of internal and external operation. [Academic]

1.2.6.2.1.1.1.3 Given a photograph or drawing of the aircraft cockpit, locate and describe the function and manipulation of each control that directly affects the escape system without error. [Academic]

1.2.6.2.1.1.1.4 Given a drawing or photograph of the aircraft cockpit, locate and describe the interpretation of each indicator that monitors the escape system without error. [Academic]

1.2.6.2.1.1.1.5 State the possible modes of escape system degradation, and describe their causes and consequences without error. [Academic]

1.2.6.2.1.1.6 List with no omissions and describe without error any features of the escape system in the F-16B that differ or are in addition to those in the F-16A. [Academic]

1.2.6.2.1.2 Given a suitable hands-on trainer, perform emergency ground egress. [Academic]

1.2.6.2.2 Perform emergency ground entrance (D) [Hands-on]

1.2.6.2.2.1 Describe the steps in the procedure for emergency ground entrance in correct order with no omission. [Academic]

1.2.6.2.3 Perform emergency ground jettison [Hands-on]

1.2.6.2.3.1 Describe the steps in the procedure for emergency ground jettison in correct order with no omissions. [Academic]

1.2.6.2.4 Identify and respond to brake failure while taxiing [Hands-on]

1.2.6.2.4.1 Given indications occurring during brake failure while taxiing, identify the specific problem and state the correct response without error. [Academic]

1.2.6.2.4.1.1 Systems workbook - wheel brake system [Academic]

1.2.6.2.4.1.1.1 Describe the wheel brake system in the F-16A and F-16B aircraft. [Academic]

1.2.6.2.4.1.1.2 List with no omissions and describe without error the components and/or functions of the wheel brake system, including as appropriate the sequence and modes of internal and external operations. [Academic]

1.2.6.2.4.1.1.3 Given a photograph or drawing of the aircraft cockpit, locate and describe the function of each control that directly affects the wheel brake system, without error. [Academic]

1.2.6.2.4.1.1.4 Given a photograph or drawing of the aircraft cockpit, locate and describe the interpretation of each indicator that monitors the wheel brake system without error. [Academic]

1.2.6.2.4.1.1.5 State the possible modes of wheel brake system degradation, and describe their causes and consequences without error. [Academic]

1.2.6.2.4.1.1.6 List with no omissions and describe without error any features of the wheel brake system in the F-16B that differ or are in addition to those in the F-16A. [Academic]

1.2.6.2.4.2 State the steps in the corrective procedure for brake failure while taxiing without error. [Academic]

1.2.6.2.5 Identify and respond to nosewheel steering failure [Hands-on]

1.2.6.2.5.1 Given indications occurring during nosewheel steering failure, identify the specific problem and state the correct response without error. [Academic]

1.2.6.2.5.1.1 Systems workbook--nosewheel steering system [Academic]

1.2.6.2.5.1.1.1 Describe the nosewheel steering system in the F-16A and F-16B aircraft. [Academic]

1.2.6.2.5.1.1.2 List with no omissions and describe without error the components and/or functions of the nosewheel steering system, including as appropriate the sequence and modes of internal and external operation. [Academic]

1.2.6.2.5.1.1.3 Given a photograph or drawing of the aircraft cockpit, locate and describe the function and manipulation of each control that directly affects the nosewheel steering system without error. [Academic]

1.2.6.2.5.1.1.4 Given a photograph or drawing of the aircraft cockpit, locate and describe the interpretation of each indicator that monitors the nosewheel steering system without error. [Academic]

1.2.6.2.5.1.1.5 State the possible modes of nosewheel steering system degradation, and describe their causes and consequences without error. [Academic]

1.2.6.2.6 Identify and respond to electrical malfunction on ground [Hands-on]

1.2.6.2.6.1 State the possible modes of electrical power system degradation, and describe their causes and consequences, without error. [Academic]

1.2.6.2.6.1.1 List with no omissions and describe without error any feature of the electrical power system in the F-16B that differ or are in addition to those of the F-16A. [Academic]

1.2.6.2.6.2 State the steps in the corrective procedure for electrical malfunction on ground without error. [Academic]

1.2.6.2.7 Identify and respond to hydraulic system failure on ground [Hands-on]

1.2.6.2.7.1 Given indications occurring during hydraulic system failure on ground, identify the specific problem and state the correct response without error. [Academic]

1.2.6.2.7.1.1 System workbook--hydraulic power system [Academic]

1.2.6.2.7.1.1.1 Describe the hydraulic power system in the F-16A and F-16B aircraft. [Academic]

1.2.6.2.7.1.1.2 List with no omissions and describe without error the components and/or functions of the hydraulic power system, including as appropriate the sequence and modes of internal and external operation. [Academic]

1.2.6.2.7.1.1.3 Given a photograph or drawing of the aircraft cockpit, locate and describe the function and manipulation of each control that directly affects the hydraulic power system without error. [Academic]

1.2.6.2.7.1.1.4 Given a photograph or drawing of the aircraft cockpit, locate and describe the interpretation of each indicator that monitors the hydraulic power system without error. [Academic]

1.2.6.2.7.1.1.5 State the possible modes of hydraulic power system degradation, and describe their causes and consequences without error. [Academic]

1.2.6.2.7.1.1.6 List with no omissions and describe without error any features of the hydraulic power system in the F-16B that differ or are in addition to the F-16A. [Academic]

1.2.6.2.7.2 State the steps in the corrective procedure for hydraulic system failure on ground without error. [Academic]

1.2    PRETAKEOFF PROCEDURES  
CRITERION-REFERENCED OBJECTIVES

Tasks Without CROs

1.2.1.2  
1.2.1.2.1  
1.2.1.2.3  
1.2.1.2.3.3  
1.2.1.2.3.4  
1.2.1.2.4  
1.2.1.6  
1.2.1.7.2  
1.2.1.7.2.2  
1.2.1.7.2.2.1  
1.2.1.7.3  
1.2.1.7.3.1  
1.2.7.3.4  
1.2.1.7.3.13  
1.2.1.7.7  
1.2.1.7.8  
1.2.1.7.9  
1.2.1.9  
1.2.1.12  
1.2.1.12.1  
1.2.1.13.1  
  
1.2.5.1  
1.2.5.1.1  
1.2.5.1.2  
1.2.5.1.3  
1.2.5.1.3.2  
1.2.6.1  
1.2.6.2  
1.2.6.2.2

TASK NO.: 1.2.1.1

BEHAVIOR: Prepare/check personal equipment

---

CONDITION:

Agency: Life support

Information source for: Required personal equipment

Manuals and pubs: None

Information source for: N/A

Activity: Perform normal pretakeoff procedures

External environment: N/A

Aids: Life support oxygen mask leak/helmet comm tester

Product of previous task: Determine mission related personal support equipment

Initiation cues: Prior to building departure for flight

Systems presenting cues: None

---

STANDARD:

Authority: TACR 501-1

Performance precision: Accurately IAW procedure

Computational accuracy: N/A

TASK NO.: 1.2.1.2.2

BEHAVIOR: Perform exterior inspection - aircraft

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 Checklist

Information source for: Exterior inspection procedures

Activity: Perform preflight checks

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon arriving at assigned aircraft

Systems presenting cues: None

---

STANDARD:

Authority: -1 checklist

Performance precision: Accurately IAW checklist

Computational accuracy: N/A

TASK NO.: 1.2.1.2.3

BEHAVIOR: Perform exterior inspection - munitions (conventional)

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity:

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.2.1.2.3.1

BEHAVIOR: Inspect M61A1 gun

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Perform exterior inspection - munitions

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon completion of or simultaneously with exterior aircraft inspection

Systems presenting cues: None

---

STANDARD:

Authority: -34 checklist

Performance precision: Accurately IAW checklist

Computational accuracy: N/A

TASK NO.: 1.2.1.2.3.2

BEHAVIOR: Inspect chaff/flare dispenser

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Perform exterior inspection - munitions

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon completion of or simultaneously with exterior aircraft inspection

Systems presenting cues: None

---

STANDARD:

Authority: -34 checklist

Performance precision: Accurately IAW checklist

Computational accuracy: N/A

TASK NO.: 1.2.1.2.3.3.1

BEHAVIOR: Inspect wing and centerline pylons

-----  
CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Inspect suspension equipment

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon completion of or simultaneously with exterior aircraft inspection

Systems presenting cues: None

-----  
STANDARD:

Authority: -34

Performance precision: Accurately IAW checklist

Computational accuracy: N/A

TASK NO.: 1.2.1.2.3.3.2

BEHAVIOR: Inspect BRU-31/A bomb rack unit

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Inspect suspension equipment

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon completion of or simultaneously with exterior aircraft inspection

Systems presenting cues: None

---

STANDARD:

Authority: -34, -25

Performance precision: Accurately IAW checklist

Computational accuracy: N/A

TASK NO.: 1.2.1.2.3.4.1

BEHAVIOR: Inspect AIM-9J missile and launcher

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Inspect weapons

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon completion of or simultaneously with exterior aircraft inspection

Systems presenting cues: None

---

STANDARD:

Authority: -34 checklist

Performance precision: Accurately IAW checklist

Computational accuracy: N/A

TASK NO.: 1.2.1.2.3.4.2

BEHAVIOR: Inspect AIM-9L missile and launcher

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Inspect weapons

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon completion of or simultaneously with exterior aircraft inspection

Systems presenting cues: None

---

STANDARD:

Authority: -34 checklist

Performance precision: Accurately IAW checklist

Computational accuracy: N/A

TASK NO.: 1.2.1.2.3.4.3

BEHAVIOR: Inspect MK 82 and MK 84 low drag general purpose bombs

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Inspect weapons

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon completion of or simultaneously with exterior aircraft inspection

Systems presenting cues: None

---

STANDARD:

Authority: -34 checklist

Performance precision: Accurately IAW checklist

Computational accuracy: N/A

TASK NO.: 1.2.1.2.3.4.4

BEHAVIOR: Inspect MK 82 (Snakeye I) and MK 36 high drag bombs

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Inspect weapons

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon completion of or simultaneously with exterior aircraft inspection

Systems presenting cues: None

---

STANDARD:

Authority: -34 checklist

Performance precision: Accurately IAW checklist

Computational accuracy: N/A

**TASK NO.:** 1.2.1.2.3.4.5

**BEHAVIOR:** Inspect GBU-8/B EO guided bomb

---

**CONDITION:**

**Agency:** None

**Information source for:** N/A

**Manuals and pubs:** -34 checklist

**Information source for:** Procedures

**Activity:** Inspect weapons

**External environment:** N/A

**Aids:** None

**Product of previous task:** None

**Initiation cues:** Upon completion of or simultaneously with exterior aircraft inspection

**Systems presenting cues:** None

---

**STANDARD:**

**Authority:** -34 checklist

**Performance precision:** Accurately IAW checklist

**Computational accuracy:** N/A

TASK NO.: 1.2.1.2.3.4.6

BEHAVIOR: Inspect GBU-10/B, GBU-10A/B laser guided bombs

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Inspect weapons

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon completion of or simultaneously with exterior aircraft inspection

Systems presenting cues: None

---

STANDARD:

Authority: -34 checklist

Performance precision: Accurately IAW checklist

Computational accuracy: N/A

TASK NO.: 1.2.1.2.3.4.7

BEHAVIOR: Inspect CBU-58/B and CBU-71/B dispensers and bombs

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Inspect weapons

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon completion of or simultaneously with exterior aircraft inspection.

Systems presenting cues: N/A

---

STANDARD:

Authority: -34 checklist

Performance precision: Accurately IAW checklist

Computational accuracy: N/A

**TASK NO.:** 1.2.1.2.3.4.8

**BEHAVIOR:** Inspect MK 20 MOD 4 antitank cluster bomb

---

**CONDITION:**

**Agency:** None

**Information source for:** N/A

**Manuals and pubs:** -34 checklist

**Information source for:** Procedures

**Activity:** Inspect weapons

**External environment:** N/A

**Aids:** None

**Product of previous task:** None

**Initiation cues:** Upon completion of or simultaneously with exterior aircraft inspection

**Systems presenting cues:** None

---

**STANDARD:**

**Authority:** -34 checklist

**Performance precision:** Accurately IAW checklist

**Computational accuracy:** N/A

TASK NO.: 1.2.1.2.3.4.9.

BEHAVIOR: Inspect BLU-27/B fire bomb

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Inspect weapons

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon completion of or simultaneously with exterior aircraft inspection

Systems presenting cues: None

---

STANDARD:

Authority: -34 checklist

Performance precision: Accurately IAW checklist

Computational accuracy: N/A

TASK NO.: 1.2.1.2.3.4.10

BEHAVIOR: Inspect SUU-25C/A flare dispenser

-----  
CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Inspect weapons

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon completion of or simultaneously with exterior  
aircraft inspection

Systems presenting cues: None

-----  
STANDARD:

Authority: -34 checklist

Performance precision: Accurately IAW checklist

Computational accuracy: N/A

**TASK NO.:** 1.2.1.2.3.4.11

**BEHAVIOR:** Inspect LAU-3/A rocket launcher

---

**CONDITION:**

**Agency:** None

**Information source for:** N/A

**Manuals and pubs:** -34 checklist

**Information source for:** Procedures

**Activity:** Inspect weapons

**External environment:** N/A

**Aids:** None

**Product of previous task:** None

**Initiation cues:** Upon completion of or simultaneously with exterior aircraft inspection

**Systems presenting cues:** None

---

**STANDARD:**

**Authority:** -34 checklist

**Performance precision:** Accurately IAW checklist

**Computational accuracy:** N/A

**TASK NO.:** 1.2.1.2.3.4.12

**BEHAVIOR:** Inspect AGM-65A,B air-to-ground guided missile

---

**CONDITION:**

**Agency:** None

**Information source for:** N/A

**Manuals and pubs:** -34 checklist

**Information source for:** Procedures

**Activity:** Inspect weapons

**External environment:** N/A

**Aids:** None

**Product of previous task:** None

**Initiation cues:** Upon completion of or simultaneously with exterior aircraft inspection

**Systems presenting cues:** None

---

**STANDARD:**

**Authority:** -34 checklist

**Performance precision:** Accurately IAW checklist

**Computational accuracy:** N/A

TASK NO.: 1.2.1.2.3.4.13

BEHAVIOR: Inspect SUU-20B/A bomb and rocket training dispenser

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Inspect weapons

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon completion of or simultaneously with exterior aircraft inspection

Systems presenting cues: None

---

STANDARD:

Authority: -34 checklist

Performance precision: Accurately IAW checklist

Computational accuracy: N/A

TASK NO.: 1.2.1.2.3.4.14

BEHAVIOR: Inspect BDU-33B/B practice bomb on BRU-31/A or TER-9A bomb  
rack

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Inspect weapons

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon completion of or simultaneously with exterior  
aircraft inspection

Systems presenting cues: None

---

STANDARD:

Authority: -34 checklist

Performance precision: Accurately IAW checklist

Computational accuracy: N/A

TASK NO.: 1.2.1.2.5

BEHAVIOR: Perform before entering cockpit checks

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity:

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.2.1.2.5.1

BEHAVIOR: Inspect ejection seat

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Procedures

Activity: Perform before entering cockpit checks

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Before entering cockpit

Systems presenting cues: None

---

STANDARD:

Authority: -1 checklist

Performance precision: Accurately IAW checklist

Computational accuracy: N/A

TASK NO.: 1.2.1.2.5.2

BEHAVIOR: Configure switches in back seat for solo flight

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Procedures

Activity: Perform before entering cockpit checks

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: After interior/weapons check; before entering cockpit

Systems presenting cues: None

---

STANDARD:

Authority: -1 checklist

Performance precision: Accurately IAW checklist

Computational accuracy: N/A

TASK NO.: 1.2.1.2.5.3

BEHAVIOR: Inspect chaff/flare programmer and control panel

-----  
CONDITION:

Agency: OPS

Information source for: Chaff/flare programmer setting  
recommendations

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Perform before entering cockpit checks

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Before entering cockpit, after exterior/weapons  
inspection

Systems presenting cues: None

-----  
STANDARD:

Authority: -34 checklist

Performance precision: Accurately IAW checklist

Computational accuracy: N/A

TASK NO.: 1.2.1.3

BEHAVIOR: Perform cockpit ingress, including strap-in

-----  
CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: None

Information source for: N/A

Activity: Perform normal pretakeoff procedures

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: After before entering cockpit checks complete

Systems presenting cues: None

-----  
STANDARD:

Authority: -1

Performance precision: Accurately without damage to equipment

Computational accuracy: N/A

TASK NO.: 1.2.1.4

BEHAVIOR: Perform cockpit interior check (power off)

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Required procedures

Activity: Perform normal pretakeoff procedures

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: After cockpit ingress

Systems presenting cues: None

---

STANDARD:

Authority: -1 checklist

Performance precision: Accurately IAW -1 procedures

Computational accuracy: N/A

**TASK NO.:** 1.2.1.5

**BEHAVIOR:** Perform before starting engine check

-----  
**CONDITION:**

**Agency:** None

**Information source for:** N/A

**Manuals and pubs:** -1 checklist

**Information source for:** Required items

**Activity:** Perform normal pretakeoff procedures

**External environment:** N/A

**Aids:** None

**Product of previous task:** N/A

**Initiation cues:** After cockpit interior check is complete

**Systems presenting cues:** N/A

-----  
**STANDARD:**

**Authority:** -1

**Performance precision:** Accurately IAW -1

**Computational accuracy:** N/A

TASK NO.: 1.2.1.6.1

BEHAVIOR: Perform normal (JFS) engine start

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Required procedures

Activity: Perform JFS/engine start

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: After before starting engine checks complete

Systems presenting cues: None

---

STANDARD:

Authority: -1

Performance precision: Accurately IAW -1 procedures

Computational accuracy: N/A

**TASK NO.:** 1.2.1.6.2

**BEHAVIOR:** Identify and respond to premature JFS cutout

---

**CONDITION:**

**Agency:** None

**Information source for:** N/A

**Manuals and pubs:** -1 checklist

**Information source for:** Engine start procedures

**Activity:** Perform JFS/Engine start

**External environment:** N/A

**Aids:** None

**Product of previous task:** None

**Initiation cues:** JFS shutdown before 50% rpm attained; JFS run light out; JFS start switch returning to off; elimination of JFS peculiar noise and vibration; engine deceleration

**Systems presenting cues:** Engine

---

**STANDARD:**

**Authority:** -1 (if incorporated - Presently GD Task Analysis)

**Performance precision:** Accurately IAW steps defined below

**Computational accuracy:** N/A

TASK NO.: 1.2.1.6.3

BEHAVIOR: Identify and respond to engine failure to start

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Normal start procedures

Activity: Perform JFS/engine start

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: FTIT does not rise when throttle moved to idle at 15% RPM.

Systems presenting cues: Engine

---

STANDARD:

Authority: -1

Performance precision: Accurately IAW -1 procedures

Computational accuracy: N/A

TASK NO.: 1.2.1.6.4

BEHAVIOR: Identify and respond to hung start

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Normal start procedures

Activity: Perform JFS/engine start

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: RPM hangs up or decays during start cycle; FTIT  
stable or decreasing

Systems presenting cues: Engine

---

STANDARD:

Authority: -1

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

TASK NO.: 1.2.1.6.5

BEHAVIOR: Identify and respond to hot start

-----  
CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Normal start procedures

Activity: Perform JFS/engine start

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Torching from tail pipe or RPM stagnates with  
increasing FTIT; rapid FTIT rise thru 580° C

Systems presenting cues: Engine

-----  
STANDARD:

Authority: -1

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

TASK NO.: 1.2.1.6.6

BEHAVIOR: Perform external power start

-----  
CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity: Perform JFS/engine start

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

-----  
STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.2.1.7

BEHAVIOR: Perform after engine start checks

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Procedures

Activity: Perform normal pretakeoff procedures

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: After engine start: JFS shutdown

Systems presenting cues: Engine

---

STANDARD:

Authority: -1

Performance precision: Accurately in sequence IAW -1

Computational accuracy: N/A

TASK NO.: 1.2.1.7.1

BEHAVIOR: Perform FCS self-test

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Procedures

Activity: Perform after engine start checks

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Appropriate point in after engine start checks

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: Accurately IAW procedures in -1

Computational accuracy: N/A

TASK NO.: 1.2.1.7.2

BEHAVIOR: Perform SMS setup

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity:

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.2.1.7.2.1

BEHAVIOR: Perform SMS stores loading verification (SMS inventory)

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Perform SMS set up

External environment: N/A

Aids: None

Product of previous task: (External stores loaded on aircraft)

Initiation cues: "SMS-as desired" step in after start checks

Systems presenting cues: None

---

STANDARD:

Authority: -34 checklist

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

**TASK NO.:** 1.2.1.7.2.2.1

**BEHAVIOR:** Perform CONV loading

---

**CONDITION:**

**Agency:** None

**Information source for:** N/A

**Manuals and pubs:** -34 checklist

**Information source for:** Procedures and inventory numbers

**Activity:** Perform SMS loading

**External environment:** N/A

**Aids:** None

**Product of previous task:** (External stores loaded on aircraft)

**Initiation cues:** If SMS not loaded with stores data or data incorrect

**Systems presenting cues:** SMS

---

**STANDARD:**

**Authority:** -34

**Performance precision:** Accurately IAW procedures in -34

**Computational accuracy:** N/A

TASK NO.: 1.2.1.7.2.2.2

BEHAVIOR: Perform RACK loading

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34 checklist

Information source for: Procedures and inventory numbers

Activity: Perform SMS loading

External environment: N/A

Aids: None

Product of previous task: (External stores and racks loaded on aircraft)

Initiation cues: If SMS not loaded with stores data or data incorrect

Systems presenting cues: SMS

---

STANDARD:

Authority: -34

Performance precision: Accurately IAW procedures in -34

Computational accuracy: N/A

TASK NO.: 1.2.1.7.2.2.3

BEHAVIOR: Perform PRGM loading

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34

Information source for: SMS procedures

Activity: Perform SMS loading

External environment: N/A

Aids: None

Product of previous task: (External profile type munitions loaded on aircraft)

Initiation cues: If PRGM loaded values are desired to be reset to canned valves

Systems presenting cues: SMS

---

STANDARD:

Authority: -34

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

**TASK NO.:** 1.2.1.7.2.3

**BEHAVIOR:** Perform air-to-surface attack modification (profile munitions)

---

**CONDITION:**

**Agency:** None

**Information source for:** N/A

**Manuals and pubs:** -34 checklist

**Information source for:** Procedures

**Activity:** Perform SMS set up

**External environment:** N/A

**Aids:** None

**Product of previous task:** (Profile type external stores loaded in SMS)

**Initiation cues:** When external ordnance aboard

**Systems presenting cues:** SMS

---

**STANDARD:**

**Authority:** -34 (See discussion beginning p. 67 draft -34)

**Performance precision:** Accurately IAW procedures

**Computational accuracy:** N/A

TASK NO.: 1.2.1.7.2.3.1

BEHAVIOR: Perform delivery mode modification

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Perform air-to-surface attack modification (profile munitions)

External environment: N/A

Aids: None

Product of previous task: Perform air-to-surface attack modification (profile munitions)

Initiation cues: When profile delivery mode displayed is to be changed

Systems presenting cues: SMS

---

STANDARD:

Authority: -34

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

**TASK NO.:** 1.2.1.7.2.3.2

**BEHAVIOR:** Perform release option modification

-----  
**CONDITION:**

**Agency:** None

**Information source for:** N/A

**Manuals and pubs:** -34 checklist

**Information source for:** Procedures

**Activity:** Perform air-to-surface attack modification (profile munitions)

**External environment:** N/A

**Aids:** None

**Product of previous task:** Perform air-to-surface attack modification (profile munitions)

**Initiation cues:** When release option displayed to be changed

**Systems presenting cues:** SMS

-----  
**STANDARD:**

**Authority:** -34

**Performance precision:** Accurately IAW procedures

**Computational accuracy:** N/A

TASK NO.: 1.2.1.7.2.3.3

BEHAVIOR: Perform impact separation modification

-----  
CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Perform air-to-surface attack modification (profile munitions)

External environment: N/A

Aids: None

Product of previous task: Perform air-to-surface attack modification (profile munitions)

Initiation cues: When impact separation displayed to be changed

Systems presenting cues: SMS

-----  
STANDARD:

Authority: -34

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

**TASK NO.:** 1.2.1.7.2.3.4

**BEHAVIOR:** Perform arming option modification

---

**CONDITION:**

**Agency:** None

**Information source for:** N/A

**Manuals and pubs:** -34 checklist

**Information source for:** Procedures

**Activity:** Perform air-to-surface attack modification (profile munitions)

**External environment:** N/A

**Aids:** None

**Product of previous task:** Perform air-to-surface attack modification (profile munitions)

**Initiation cues:** When arming option displayed to be changed

**Systems presenting cues:** SMS

---

**STANDARD:**

**Authority:** -34

**Performance precision:** Accurately IAW procedures

**Computational accuracy:** N/A

TASK NO.: 1.2.1.7.2.3.5

BEHAVIOR: Perform number of releases modification

-----  
CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34

Information source for: Procedures

Activity: Perform air-to-surface attack modification (profile munitions)

External environment: N/A

Aids: None

Product of previous task: Perform air-to-surface attack modification (profile munitions)

Initiation cues: When number of releases displayed to be changed

Systems presenting cues: SMS

-----  
STANDARD:

Authority: -34

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

**TASK NO.:** 1.2.1.7.2.3.6

**BEHAVIOR:** Perform preselection of weapon - Air-to-Surface mode

---

**CONDITION:**

**Agency:** None

**Information source for:** N/A

**Manuals and pubs:** -34

**Information source for:** Procedures

**Activity:** Perform air-to-surface attack modification (profile munitions)

**External environment:** N/A

**Aids:** None

**Product of previous task:** Perform air-to-surface attack modification (profile munition)

**Initiation cues:** If desired munition not in correct sequence

**Systems presenting cues:** SMS

---

**STANDARD:**

**Authority:** GA Phase Manual (to be incorporated)

**Performance precision:** Accurately IAW procedures

**Computational accuracy:** N/A

TASK NO.: 1.2.1.7.3

BEHAVIOR: Perform FCNP setup

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity:

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.2.1.7.3.1

BEHAVIOR: Perform normal INS (gyrocompass) alignment

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity:

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.2.1.7.3.1.1

BEHAVIOR: Enter present position on FCNP

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34, -1 checklist

Information source for: Required steps

Activity: Perform normal INU alignment

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Incorrect present position

Systems presenting cues: FCNP

---

STANDARD:

Authority: -34

Performance precision: 100% accuracy

Computational accuracy: N/A

TASK NO.: 1.2.1.7.3.1.2

BEHAVIOR: Enter manual magnetic variation on FCNP

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34

Information source for: Required steps

Activity: Perform normal INU alignment

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Automatic MAG VAR incorrect

Systems presenting cues: FCNP

---

STANDARD:

Authority: -34

Performance precision: 100% accuracy

Computational accuracy: N/A

TASK NO.: 1.2.1.7.3.1.3

BEHAVIOR: Monitor alignment status on FCNP

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34

Information source for: Required steps

Activity: Perform normal INU alignment

External environment: N/A

Aids: None

Product of previous task: Enter present position on FCNP

Initiation cues: During alignment

Systems presenting cues: FCNP

---

STANDARD:

Authority: -34

Performance precision: 100% accuracy

Computational accuracy: N/A

TASK NO.: 1.2.1.7.3.2

BEHAVIOR: Perform a stored heading alignment

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34, -1 checklist

Information source for: Required steps

Activity: Perform FCNP setup

External environment: N/A

Aids: None

Product of previous task: Perform INU alignment

Initiation cues: For scramble takeoff

Systems presenting cues: N/A

---

STANDARD:

Authority: -34

Performance precision: 100% accuracy

Computational accuracy: N/A

TASK NO.: 1.2.1.7.3.3

BEHAVIOR: Perform a Best Available True Heading (BATH) alignment

---

CONDITION:

Agency: None

Information source for: n/a

Manuals and pubs: -34, -1 checklist

Information source for: Required steps

Activity: Perform fcnp setup

External environment: N/A.

Aids: None

Product of previous task: None

Initiation cues: TBD

Systems presenting cues: N/A

---

STANDARD:

Authority: -34

Performance precision: 100% accuracy

Computational accuracy: N/A

TASK NO.: 1.2.1.7.3.4

BEHAVIOR: Enter destination data

-----  
CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity:

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

-----  
STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.2.1.7.3.4.1

BEHAVIOR: Enter destination coordinates

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34, -1 checklist

Information source for: Required steps

Activity: Enter destination data

External environment: N/A

Aids: Inflight guide, map, FLIP

Product of previous task: None

Initiation cues: During alignment

Systems presenting cues: FCNP

---

STANDARD:

Authority: -34

Performance precision: 100% accuracy

Computational accuracy: N/A

TASK NO.: 1.2.1.7.3.4.2

BEHAVIOR: Enter destination elevation

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34

Information source for: Required steps

Activity: Enter Destination data

External environment: N/A

Aids: Inflight guide map, FLIP

Product of previous task: Enter destination coordinates

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -34

Performance precision: 100% accuracy

Computational accuracy: N/A

TASK NO.: 1.2.1.7.3.4.3

BEHAVIOR: Enter offset aimpoint data

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34

Information source for: Required steps

Activity: Enter destination data

External environment: N/A

Aids: Inflight guide, map

Product of previous task: Enter destination coordinates

Initiation cues: None

Systems presenting cues: N/A

---

STANDARD:

Authority: -34

Performance precision: 100% accuracy

Computational accuracy: N/A

TASK NO.: 1.2.1.7.3.5

BEHAVIOR: Perform computer time select

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Procedures

Activity: Perform FCNP setup

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Before takeoff

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: Accurately IAW -1 procedures

Computational accuracy: N/A

TASK NO.: 1.2.1.7.3.6

BEHAVIOR: Perform cursor zero

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Procedures

Activity: Perform FCNP set up

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Before takeoff

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: Accurately IAW -1 procedures

Computational accuracy: N/A

TASK NO.: 1.2.1.7.3.7

BEHAVIOR: Perform D-value altitude calibration

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34, -1 checklist

Information source for: Required steps

Activity: Perform FCNP setup

External environment: N/A

Aids: None

Product of previous task: Perform INU alignment

Initiation cues: Before takeoff

Systems presenting cues: N/A

---

STANDARD:

Authority: -34

Performance precision: 100% accuracy

Computational accuracy: N/A

TASK NO.: 1.2.1.7.3.8

BEHAVIOR: Perform maintenance fault list (MFL) clearing

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Required steps

Activity: Perform FCNP setup

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Before taxi

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: Accurately IAW -1 procedures

Computational accuracy: N/A

TASK NO.: 1.2.1.7.3.9

BEHAVIOR: Enter beacon data using FCNP

---

CONDITION:

Agency: OPS

Information source for: Appropriate beacon data

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Perform FCNP setup

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: If beacon mode to be used

Systems presenting cues: N/A

---

STANDARD:

Authority: -34

Performance precision: IAW -34 procedures

Computational accuracy: N/A

TASK NO.: 1.2.1.7.3.10

BEHAVIOR: Enter TISL code using FCNP

---

CONDITION:

Agency: Operations

Information source for: TISL code

Manuals and pubs: -34 checklist

Information source for: Procedures

Activity: Perform FCNP set up

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: When TISL to be used

Systems presenting cues:

---

STANDARD:

Authority: -34

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

TASK NO.: 1.2.1.7.3.11.1

BEHAVIOR: Enter bingo fuel on FCNP

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34

Information source for: Required steps

Activity: Perform energy management set up

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Before taxi

Systems presenting cues: N/A

---

STANDARD:

Authority: -34

Performance precision: 100% accuracy

Computational accuracy: N/A

TASK NO.: 1.2.1.7.3.11.2

BEHAVIOR: Enter home steerpoint

-----  
CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34

Information source for: Required steps

Activity: Perform energy management set up

External environment: N/A

Aids: None

Product of previous task: Perform SMS store loading verification

Initiation cues: After SMS verification

Systems presenting cues: N/A  
-----

STANDARD:

Authority: -34

Performance precision: 100% accuracy

Computational accuracy: N/A

TASK NO.: 1.2.1.7.3.12

BEHAVIOR: Check OFF

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34

Information source for: Required steps

Activity: Perform FCNP set up

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Before taxi

Systems presenting cues: N/A

---

STANDARD:

Authority: -34

Performance precision: 100% accuracy

Computational accuracy: N/A

TASK NO.: 1.2.1.7.4

BEHAVIOR: Perform REO setup

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1

Information source for: Required steps

Activity: Perform after engine start check

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Before takeoff

Systems presenting cues: N/A

---

STANDARD:

Authority: -1 for procedures/flight lead direction for configuration

Performance precision: Accurately IAW -1 procedures and flight lead direction

Computational accuracy: N/A

TASK NO.: 1.2.1.7.5

BEHAVIOR: Perform HUD setup

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1

Information source for: Required checks

Activity: Perform after engine start checks

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Before takeoff

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: 100% accuracy

Computational accuracy: N/A

TASK NO.: 1.2.1.7.6

BEHAVIOR: Perform threat warning system check

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Procedures

Activity: Perform after engine start checks

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Before takeoff

Systems presenting cues: N/A

---

STANDARD:

Authority: -1 and classified

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

TASK NO.: 1.2.1.7.7

BEHAVIOR: Perform ECM equipment checks (if applicable)

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -34 and classified 34

Information source for: Procedures

Activity: Perform after engine start checks

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Before takeoff

Systems presenting cues: N/A

---

STANDARD:

Authority: -34 and classified

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

**TASK NO.:** 1.2.1.7.8

**BEHAVIOR:** Perform secure voice check

---

**CONDITION:**

**Agency:**

Information source for:

**Manuals and pubs:**

Information source for:

**Activity:** Perform after engine start checks

**External environment:**

**Aids:**

**Product of previous task:**

**Initiation cues:**

Systems presenting cues:

---

**STANDARD:**

**Authority:**

**Performance precision:**

**Computational accuracy:**

**TASK NO.:** 1.2.1.7.9

**BEHAVIOR:** Perform BIT checks via FCNP.

---

**CONDITION:**

**Agency:**

Information source for:

**Manuals and pubs:**

Information source for:

**Activity:**

**External environment:**

**Aids:**

**Product of previous task:**

**Initiation cues:**

Systems presenting cues:

---

**STANDARD:**

**Authority:**

**Performance precision:**

**Computational accuracy:**

TASK NO.: 1.2.1.8

BEHAVIOR: Perform before taxi checks

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Procedures.

Activity: Perform normal pretakeoff

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon completion of after start engine checks

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

TASK NO.: 1.2.1.9.1

BEHAVIOR: Perform taxi checks

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Required checks

Activity: Perform taxi

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon completion of before taxi procedures

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

TASK NO.: 1.2.1.9.2

BEHAVIOR: Perform single-ship taxi

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: None

Information source for: N/A

Activity: Perform taxi

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: After before taxi/taxi checks complete

Systems presenting cues: N/A

---

STANDARD:

Authority: 55-16

Performance precision: IAW procedures; smoothly IAW IP judgment

Computational accuracy: N/A

TASK NO.: 1.2.1.9.3

BEHAVIOR: Perform formation taxi

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: None

Information source for: N/A

Activity: Perform taxi

External environment: N/A

Aids: None

Product of previous task: N/A

Initiation cues: After before taxi/taxi checks complete

Systems presenting cues: N/A

---

STANDARD:

Authority: 55-16

Performance precision: IAW procedures; smoothly IAW IP judgment

Computational accuracy: N/A

TASK NO.: 1.2.1.10

BEHAVIOR: Accomplish maintenance arming procedures/maintenance checks

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: None

Information source for: N/A

Activity: Perform normal pretakeoff

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: On reaching arming/quick check area

Systems presenting cues: N/A

---

STANDARD:

Authority: 55-16

Performance precision: IAW procedures in 55-16

Computational accuracy: N/A

TASK NO.: 1.2.1.11

BEHAVIOR: Perform before takeoff checks

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Procedures

Activity: Perform normal pretakeoff

External environment: N/A

Aids: None

Product of previous task: N/A

Initiation cues: After maintenance/arming checks completed

Systems presenting cues: N/A

---

STANDARD:

Authority: -1

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

TASK NO.: 1.2.1.13.1

BEHAVIOR: Perform lineup checks for single ship takeoff

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity:

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.2.1.13.2

BEHAVIOR: Perform lineup checks for formation takeoff

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity:

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.2.2

BEHAVIOR: Perform night ground operations

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Normal procedures

Activity: Perform pretakeoff procedures

External environment: After official sunset

Aids: None

Product of previous task: None

Initiation cues: Flight leader direction/after official sunset

Systems presenting cues: N/A

---

STANDARD:

Authority: 55-16

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

TASK NO.: 1.2.3

BEHAVIOR: Perform adverse weather pretakeoff procedures

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity: Perform pretakeoff procedures

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.2.4

BEHAVIOR: Perform scramble pretakeoff procedures

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity:

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

**TASK NO.:** 1.2.4.1

**BEHAVIOR:** Perform scramble preflight checks (cock aircraft for alert)

---

**CONDITION:**

**Agency:** OPS

**Information source for:** Local alert cocking procedures

**Manuals and pubs:** -1 checklist

**Information source for:** Procedures

**Activity:** Perform scramble pretakeoff procedures

**External environment:** N/A

**Aids:** None

**Product of previous task:** None

**Initiation cues:** When directed

**Systems presenting cues:** N/A

---

**STANDARD:**

**Authority:** -1 and local directives

**Performance precision:** Accurately IAW procedures

**Computational accuracy:** N/A

TASK NO.: 1.2.4.2

BEHAVIOR: Perform scramble launch (aircraft on alert) procedures

---

CONDITION:

Agency: OPS

Information source for: Scramble launch order

Manuals and pubs: -1 checklist

Information source for: Procedures

Activity: Perform scramble pretakeoff procedures

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: On launch

Systems presenting cues: N/A

---

STANDARD:

Authority: -1 and local OPS procedures/directives

Performance precision: Accurately IAW procedures and directives

Computational accuracy: N/A

TASK NO.: 1.2.4.3

BEHAVIOR: Perform scramble taxi

-----  
CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Scramble launch procedures

Activity: Perform scramble pretakeoff procedures

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon completion of before taxiing check in scramble checklist

Systems presenting cues: N/A  
-----

revious task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.2.5.1.3.1

BEHAVIOR: Inspect MAU-12 C/A rack (nuclear)

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -25 checklist

Information source for: Procedures

Activity: Perform exterior inspection munitions (nuclear)

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon completion of aircraft exterior inspection

Systems presenting cues: N/A

---

STANDARD:

Authority: -25

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

TASK NO.: 1.2.5.1.3.2.1

BEHAVIOR: Inspect B43 bomb (nuclear)

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -25 checklist

Information source for: Procedures

Activity: Inspect weapons (nuclear)

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Preflight when B43 loaded

Systems presenting cues: N/A

---

STANDARD:

Authority: -25

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

TASK NO.: 1.2.5.1.3.2.2

BEHAVIOR: Inspect B57 bomb (nuclear)

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -25 checklist

Information source for: Procedures

Activity: Inspect weapons (nuclear)

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Preflight when B57 loaded

Systems presenting cues: N/A

---

STANDARD:

Authority: -25

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

TASK NO.: 1.2.5.1.3.2.3

BEHAVIOR: Inspect B61 bomb (nuclear)

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -25 checklist

Information source for: Procedures

Activity: Inspect weapons (nuclear)

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Preflight when B61 loaded

Systems presenting cues: N/A

---

STANDARD:

Authority: -25

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

TASK NO.: 1.2.5.1.4

BEHAVIOR: Perform interior inspection (power off) - nuclear

---

CONDITION:

Agency: OPS

Information source for: Chaff/flare programmer setting  
recommendations

Manuals and pubs: -25 checklist

Information source for: Procedures

Activity: Perform preflight procedures - nuclear

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: When exterior inspection - aircraft (nuclear)  
completed

Systems presenting cues: N/A

---

STANDARD:

Authority: -25

Performance precision: Accurately

Computational accuracy: N/A

TASK NO.: 1.2.5.1.5

BEHAVIOR: Perform interior inspection (power on) - nuclear

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -25 checklist

Information source for: Procedures

Activity: Perform preflight procedures - nuclear

External environment: N/A

Aids: None

Product of previous task: N/A

Initiation cues: Upon completion of exterior inspection and interior power off inspection

Systems presenting cues: N/A

---

STANDARD:

Authority: -25

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

TASK NO.: 1.2.5.1.5.1

BEHAVIOR: Perform NUC loading

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -25 checklist

Information source for: Procedures

Activity: Perform interior inspection (power on) nuclear

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: If SMS not loaded with NUC stores or data incorrect

Systems presenting cues: SMS

---

STANDARD:

Authority: -25

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

**TASK NO.:** 1.2.5.2

**BEHAVIOR:** Perform ground alert procedures (nuclear)

-----  
**CONDITION:**

**Agency:** Ops

**Information source for:** Local procedures

**Manuals and pubs:** -25

**Information source for:** general guidance/directives

**Activity:** Perform nuclear alert procedures

**External environment:** N/A

**Aids:** None

**Product of previous task:** None

**Initiation cues:** When directed

**Systems presenting cues:** N/A

-----  
**STANDARD:**

**Authority:** -25 and AFR 122-4

**Performance precision:** IAW directives

**Computational accuracy:** N/A

TASK NO.: 1.2.5.3

BEHAVIOR: Perform launch procedures (nuclear)

---

CONDITION:

Agency: Ops

Information source for: Local, command and higher headquarters  
directives

Manuals and pubs: -25 checklist

Information source for: Procedures

Activity: Perform nuclear strike/alert procedures

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Upon receipt of authenticated launch orders

Systems presenting cues: N/A

---

STANDARD:

Authority: -25

Performance precision: Accurately IAW procedures and directives

Computational accuracy: N/A

TASK NO.: 1.2.6

BEHAVIOR: Perform pretakeoff emergency procedures

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity:

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.2.6.1

BEHAVIOR: Perform engine-starting emergency procedures

---

CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity:

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

---

STANDARD:

Authority:

Performance precision:

Computational accuracy:

TASK NO.: 1.2.6.1.1

BEHAVIOR: Accomplish emergency engine shutdown on ground

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Start emergency procedures

Activity: Perform engine starting emergency procedures

External environment: N/A

Aids: None

Product of previous task: N/A

Initiation cues: Fire warning/overheat caution light or taxi mishaps

Systems presenting cues: N/A

---

STANDARD:

Authority: Transition Phase Manual discussion

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

TASK NO.: 1.2.6.1.2

BEHAVIOR: Respond to JFS malfunction (no JFS RUN light)

-----  
CONDITION:

Agency: Ops

Information source for: Local procedures

Manuals and pubs: -1 checklist

Information source for: Required checks

Activity: Perform engine starting emergency procedures

External environment: N/A

Aids: None

Product of previous task:

Initiation cues: No JFS RUN light

Systems presenting cues: Engine; warning, caution, and indicator lights

-----  
STANDARD:

Authority: Transition phase manual

Performance precision: 100% accuracy

Computational accuracy: N/A

TASK NO.: 1.2.6.1.3

BEHAVIOR: Respond to JFS RUN light not going out

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Required checks

Activity: Perform engine starting emergency procedures

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: JFS RUN light remains on at idle

Systems presenting cues: Engine; warning, caution, and indicator lights

---

STANDARD:

Authority: -1

Performance precision: Accurately IAW procedures

Computational accuracy: N/A

TASK NO.: 1.2.6.1.4

BEHAVIOR: Identify and respond to engine start overtemp

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Required checks

Activity: Perform engine starting emergency procedures

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: FTIT rising rapidly past 580° C

Systems presenting cues: Engine

---

STANDARD:

Authority: -1 and IP judgment

Performance precision: Accurately IAW -1 procedures; timely IAW IP judgment

Computational accuracy: N/A

TASK NO.: 1.2.6.1.5

BEHAVIOR: Identify and respond to engine/JFS fire/overheat on start

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Required checks

Activity: Perform engine starting emergency procedures

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Sound, vibration, flames, smoke, signal from crew chief or radio call, illumination of OVERHEAT or ENGINE FIRE warning light, FTIT out of limits

Systems presenting cues: Communications, engine; warning, caution, and indicator lights

---

STANDARD:

Authority: -1 and IP

Performance precision: Accurately IAW -1 procedures; timely IAW IP judgment

Computational accuracy: N/A

TASK NO.: 1.2.6.2.1

BEHAVIOR: Perform emergency ground egress

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Procedures

Activity: Perform ground emergency procedures

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Emergency requiring immediate ground egress

Systems presenting cues: N/A

---

STANDARD:

Authority: -1 and IP

Performance precision: Accurately IAW -1 and safely IAW IP judgment

Computational accuracy: N/A

TASK NO.: 1.2.6.2.2

BEHAVIOR: Perform emergency ground entrance

-----  
CONDITION:

Agency:

Information source for:

Manuals and pubs:

Information source for:

Activity: Perform ground emergency procedures

External environment:

Aids:

Product of previous task:

Initiation cues:

Systems presenting cues:

-----  
STANDARD:

Authority:

Performance precision:

Computational accuracy: N/A

TASK NO.: 1.2.6.2.3

BEHAVIOR: Perform emergency ground jettison

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Required checks

Activity: Perform ground emergency procedures

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: Ground jettison required (e.g., stores on fire,  
power loss on takeoff, etc.)

Systems presenting cues: N/A

---

STANDARD:

Authority: -1 and IP

Performance precision: Accurately IAW -1 and timely IAW IP judgment

Computational accuracy: N/A

TASK NO.: 1.2.6.2.4

BEHAVIOR: Identify and respond to brake failure while taxiing

-----  
CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Procedures

Activity: Perform ground emergency procedures

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: 1. Anti-skid caution light illumination; 2. Abnormal or lack of response to brake application; 3. Hydraulic system B failure.

Systems presenting cues: Warning, caution, and indicator lights, wheel brake, hydraulic power supply

-----  
STANDARD:

Authority: -1 and instructor

Performance precision: Accurately IAW -1 procedures; timely IAW IP judgment

Computational accuracy: N/A

TASK NO.: 1.2.6.2.5

BEHAVIOR: Identify and respond to nosewheel steering failure

-----  
CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: -1 checklist

Information source for: Procedures

Activity: Perform ground emergency procedures

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: 1. NWS caution light illuminates; 2. NWS ENGAGE  
light goes out/fails to illuminate when NWS is commanded

Systems presenting cues: NWS

-----  
STANDARD:

Authority: -1 and IP

Performance precision: Accurately IAW -1 procedures and timely IAW IP  
judgment

Computational accuracy: N/A

TASK NO.: 1.2.6.2.6

BEHAVIOR: Identify and respond to electrical malfunction on ground

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: None

Information source for: N/A

Activity: Perform ground emergency procedures

External environment: N/A

Aids: None

Product of previous task: N/A

Initiation cues: Master caution, ELEC SYS and GEN FAIL caution lights illuminate

Systems presenting cues: Electrical

---

STANDARD:

Authority: CRO steps below as contained in discussion in transition phase manual

Performance precision: Accuately IAW steps

Computational accuracy: N/A

TASK NO.: 1.2.6.2.7

BEHAVIOR: Identify and respond to hydraulic system failure on ground

---

CONDITION:

Agency: None

Information source for: N/A

Manuals and pubs: None

Information source for: N/A

Activity: Perform ground emergency procedures

External environment: N/A

Aids: None

Product of previous task: None

Initiation cues: HYD/OIL PRESS warning light illumination

Systems presenting cues: Hydraulic power supply

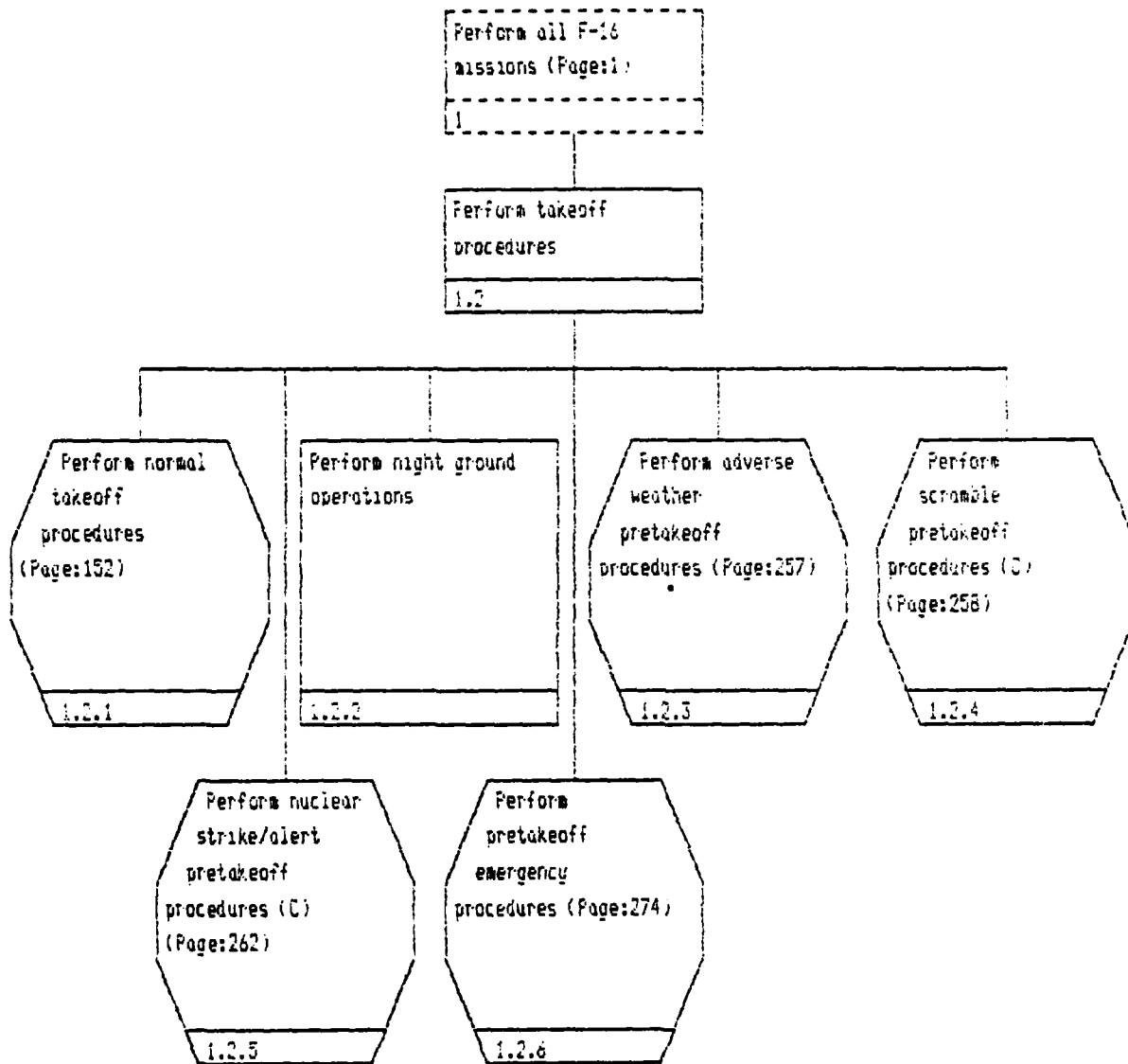
---

STANDARD:

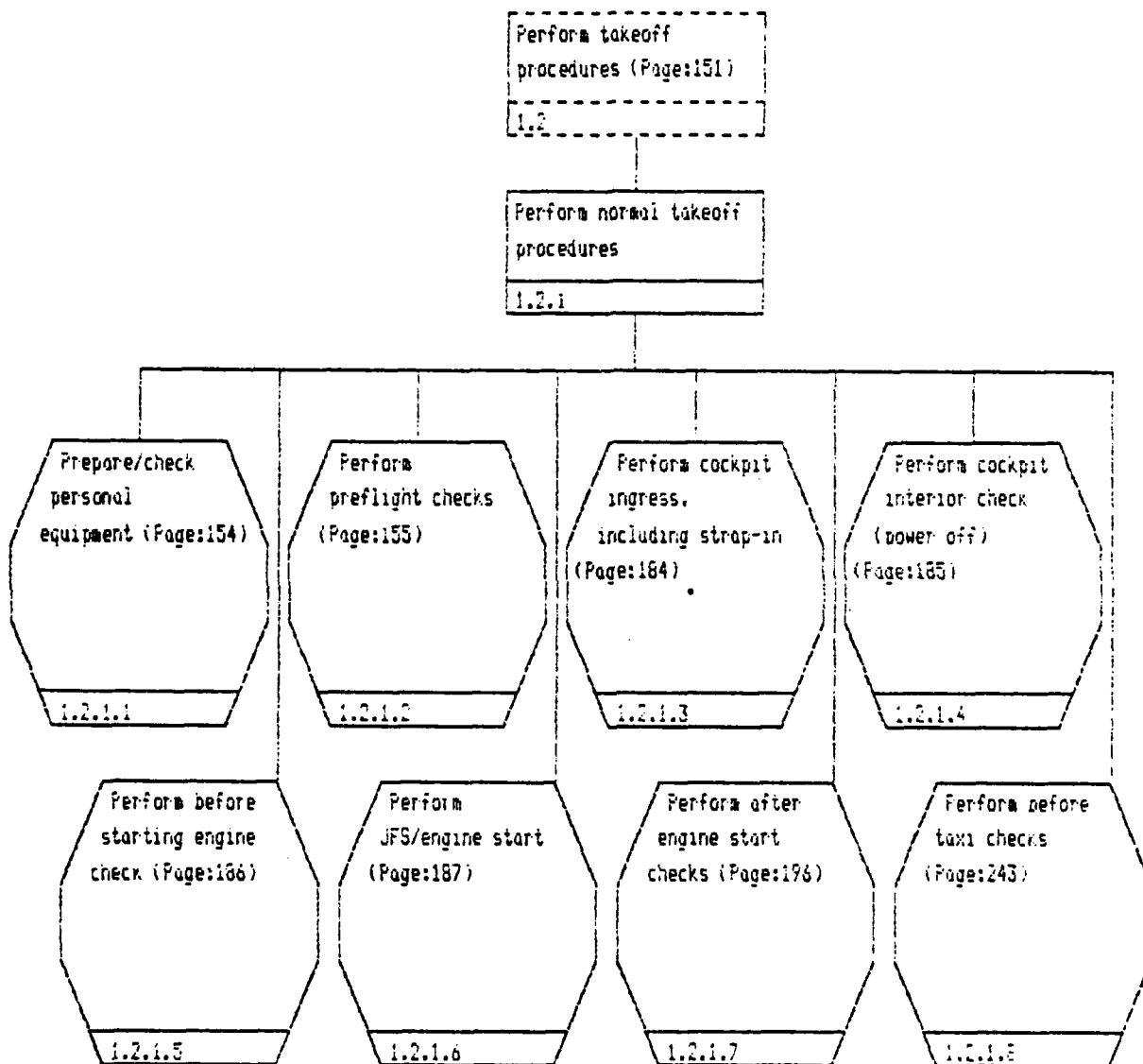
Authority: Steps as contained below and incorporated into Transition Phase Manual

Performance precision: Accurately IAW steps

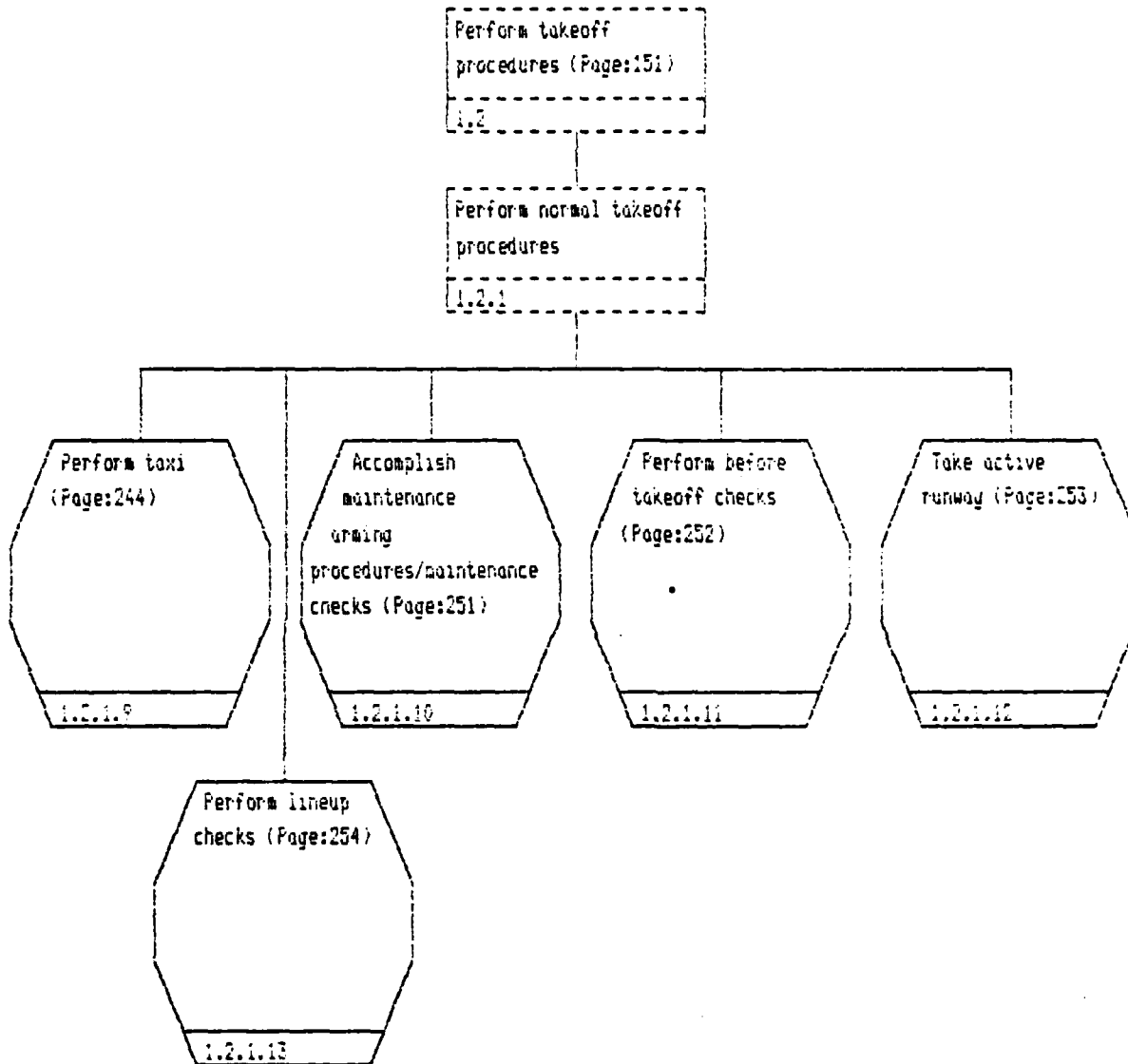
Computational accuracy: N/A



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Continued from page: 152



Perform normal takeoff  
procedures (Page:152)

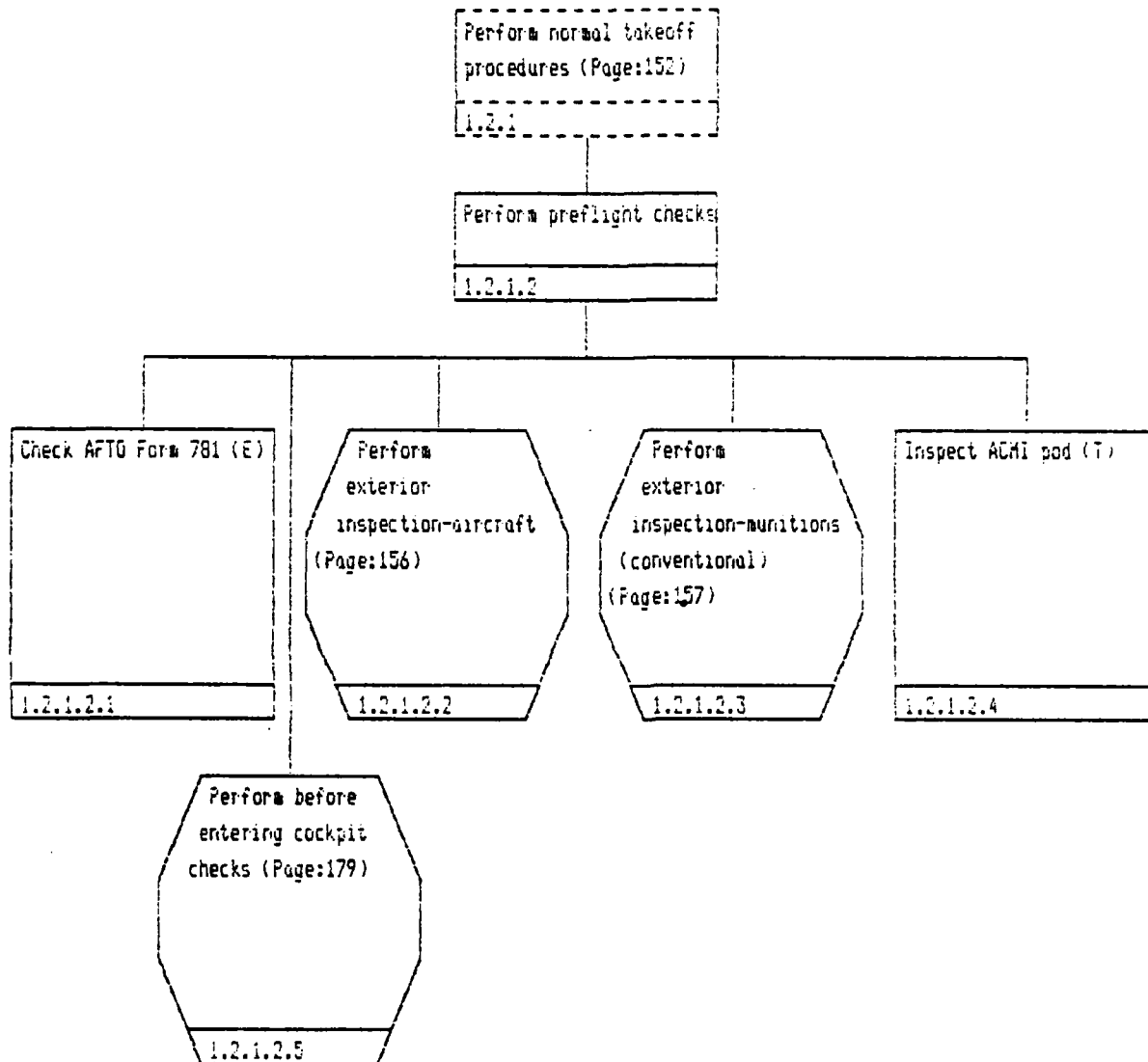
1.2.1

Prepare/check personal  
equipment

1.2.1.1

Given personal  
equipment, identify  
unacceptable conditions  
and determine  
appropriate action in  
accordance with  
regulations

1.2.1.1.1



Perform preflight  
checks (Page:155)

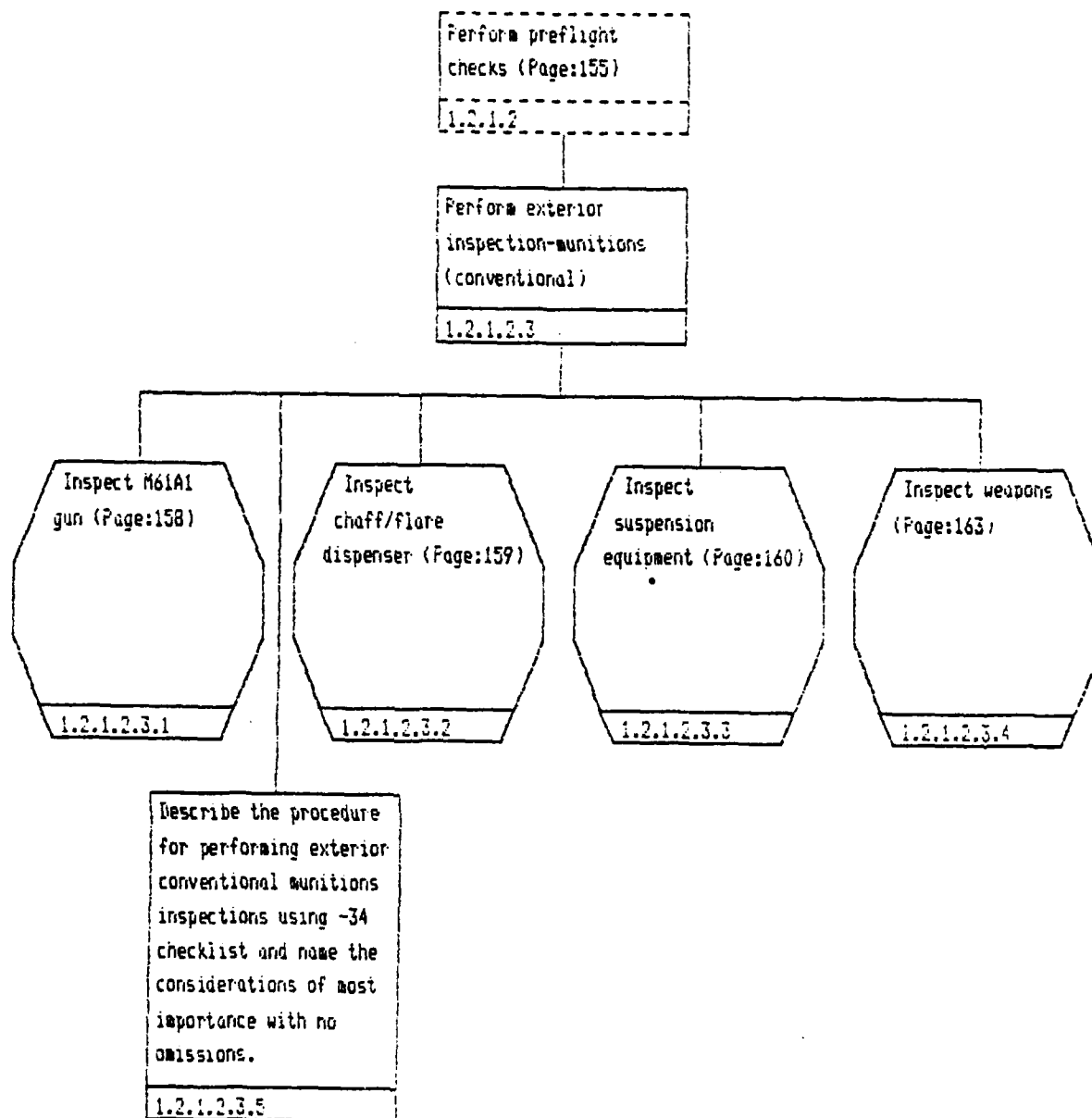
1.2.1.2

Perform exterior  
inspection-aircraft

1.2.1.2.3

Match exterior A/C  
inspection checklist  
items with their  
associated notes;  
warnings, cautions,  
limits, tolerances and  
critical values without  
error.

1.2.1.2.3.1



Perform exterior  
inspection-ammunitions  
(conventional)  
(Page:157)

1.2.1.2.3

Inspect M61A1 gun

1.2.1.2.3.1

Match gun checklist  
items with their  
associated notes, .  
warnings, cautions,  
tolerances, limits, and  
critical values without  
error.

1.2.1.2.3.1.1

Perform exterior  
inspection-munitions  
(conventional)  
(Page:157)

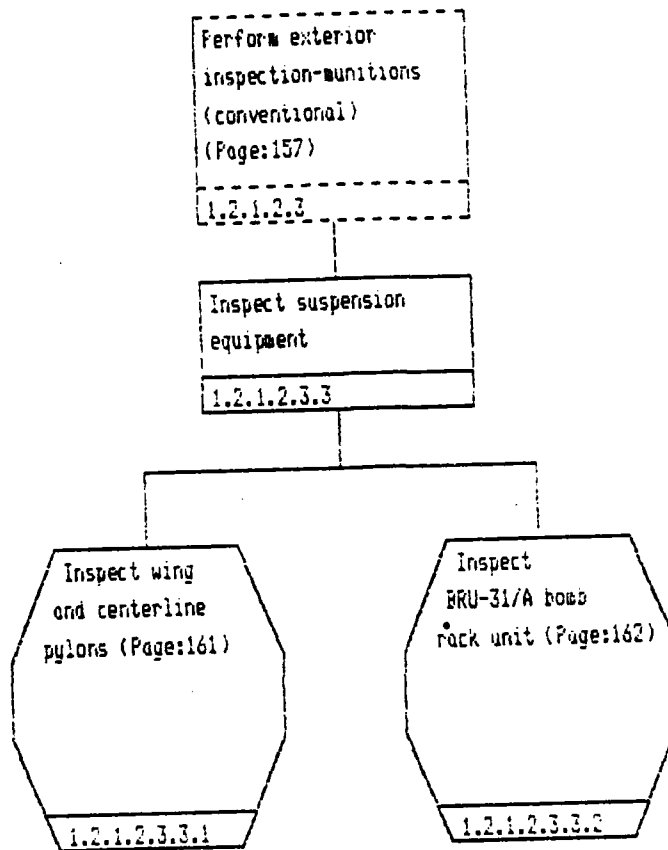
1.2.1.2.3

Inspect chaff/flare  
dispenser

1.2.1.2.3.2

Match chaff/flare  
dispenser checklist  
items with their  
associated notes,  
warnings, cautions,  
tolerances, limits, and  
critical values without  
error.

1.2.1.2.3.2.1



Inspect suspension  
equipment (Page:160)

1.2.1.2.3.3

Inspect wing and  
centerline pylons

1.2.1.2.3.3.1

Match wing and  
centerline pylon  
checklist items with  
their associated notes,  
warnings, cautions,  
tolerances, limits, and  
critical values without  
error.

1.2.1.2.3.3.1.1

Inspect suspension  
equipment (Page:160)

1.2.1.2.3.3

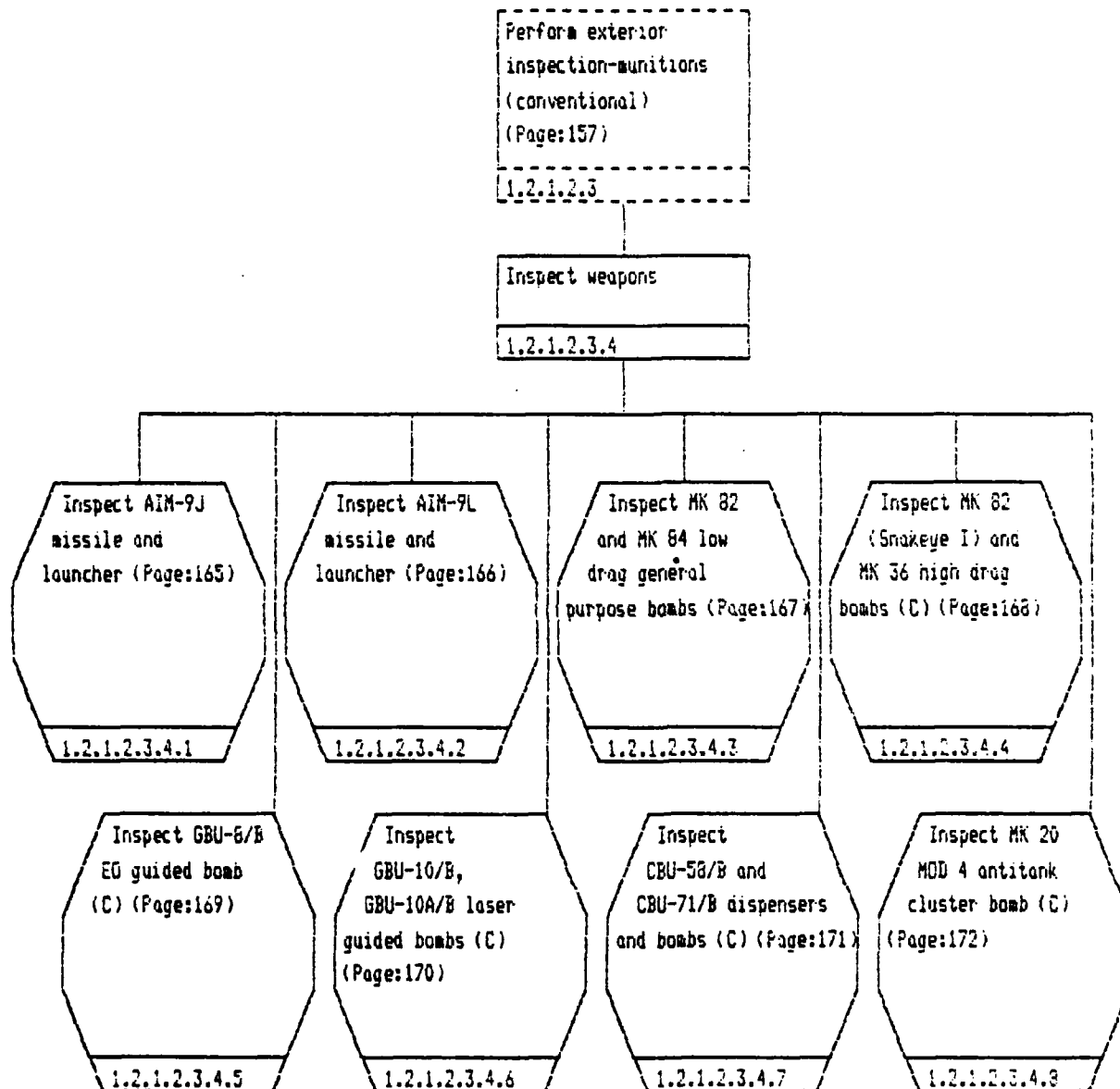
Inspect BRU-31/A bomb  
rack unit

1.2.1.2.3.3.2

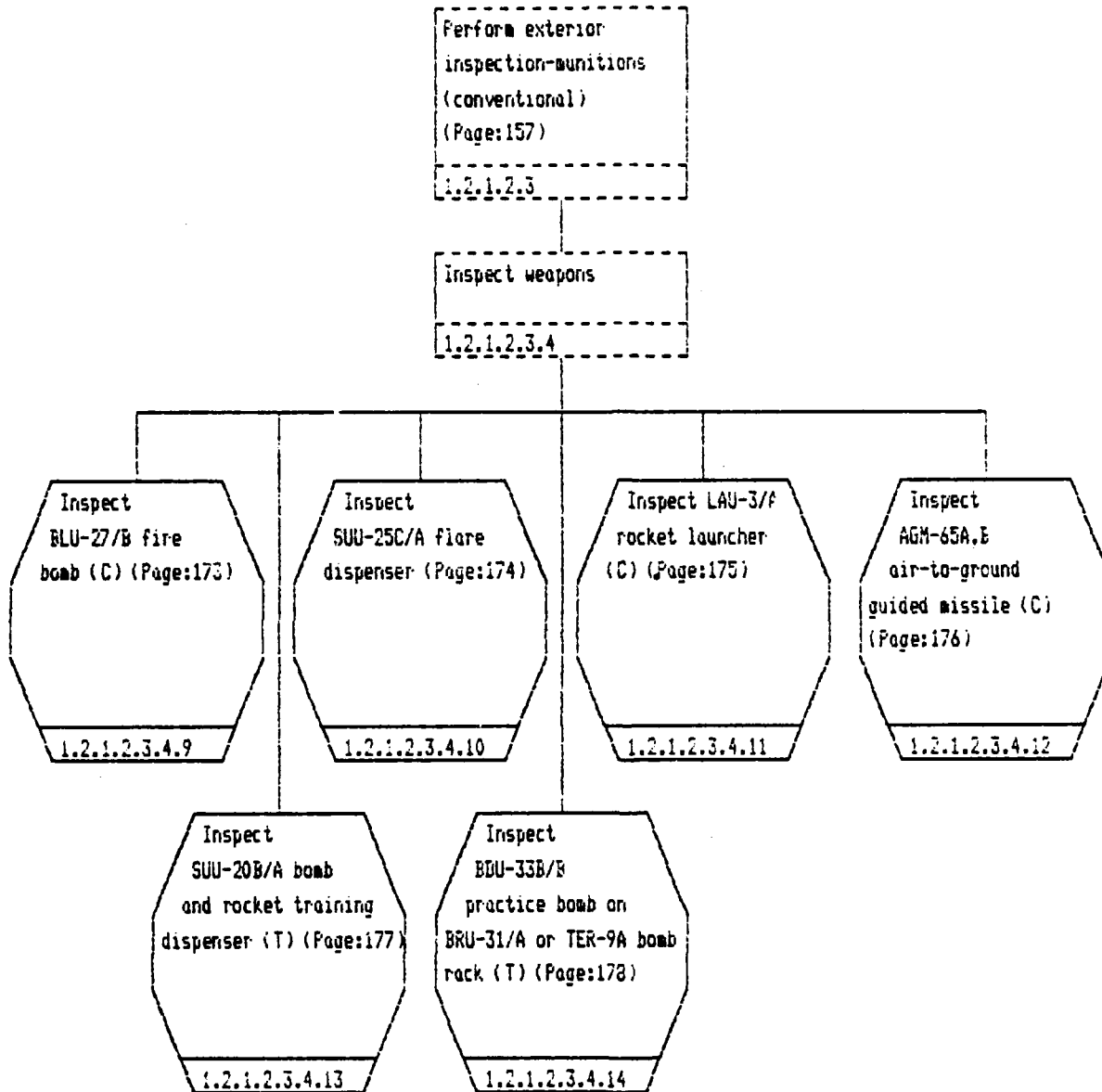
Match BRU 31/A  
checklist items with  
their associated notes,  
warnings, cautions,  
tolerances, limits, and  
critical values without  
error.

1.2.1.2.3.3.2.1

Continued on page: 164



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Inspect weapons  
(Page:163)  
1.2.1.2.3.4

Inspect AIM-9J missile  
and launcher  
1.2.1.2.3.4.1

Match AIM-9J missile  
and launcher checklist  
items with their  
associated notes,  
warnings, cautions,  
tolerances, limits, and  
critical values.  
1.2.1.2.3.4.1.i

Inspect weapons  
(Page:163)

1.2.1.2.3.4

Inspect AIM-9L missile  
and launcher

1.2.1.2.3.4.2

Match AIM-9L missile  
and launcher checklist  
items with their  
associated notes,  
warnings, cautions,  
tolerances, limits, and  
critical values without  
error.

1.2.1.2.3.4.2.1

Inspect weapons  
(Page:163)  
1.2.1.2.3.4

Inspect MK 82 and MK 84  
low drag general  
purpose bombs  
1.2.1.2.3.4.3

Match MK 82 and MK 84  
LDGP bombs checklist  
items with their  
associated notes,  
warnings, cautions,  
tolerances, limits, and  
critical values without  
error.  
1.2.1.2.3.4.3.1

Inspect weapons  
(Page:163)  
1.2.1.2.3.4

Inspect MK 82 (Snakeye  
I) and MK 36 high drag  
bombs (C)  
1.2.1.2.3.4.4

Match MK 82 and MK 36  
HDGP bombs checklist  
items with their  
associated notes,  
warnings, cautions,  
tolerances, limits, and  
critical values without  
error.  
1.2.1.2.3.4.4.1

Inspect weapons  
(Page:163)

1.2.1.2.3.4

Inspect GBU-8/B EO  
guided bomb (C)

1.2.1.2.3.4.5

Match GBU-8/B checklist  
items with their  
associated notes,  
warnings, cautions,  
tolerances, limits, and  
critical values without  
error

1.2.1.2.3.4.5.1

Inspect weapons  
(Page:163)

1.2.1.2.3.4

Inspect GBU-10/E,  
GBU-10A/B laser guided  
bombs (C)

1.2.1.2.3.4.6

Match GBU-10/E,  
GBU-10A/B checklist  
items with their  
associated notes.  
warnings, cautions,  
tolerances, limits, and  
critical values without  
error.

1.2.1.2.3.4.6.1

Inspect weapons  
(Page:163)

1.2.1.2.3.4

Inspect CBU-58/B and  
CBU-71/B dispensers and  
bombs (C)

1.2.1.2.3.4.7

Match CBU-58/B, and  
CBU-71/B checklist  
items with their  
associated notes,  
warnings, cautions,  
tolerances, limits and  
critical values without  
error.

1.2.1.2.3.4.7.1

Inspect weapons  
(Page:163)  
1.2.1.2.3.4

Inspect MK 20 MOD 4  
antitank cluster bomb  
(C)  
1.2.1.2.3.4.8

Match MK 20 MOD 4  
checklist items with  
their associated notes,  
warnings, cautions,  
tolerances, limits, and  
critical values without  
error.  
1.2.1.2.3.4.8.1

Inspect weapons  
(Page:163)

1.2.1.2.3.4

Inspect BLU-27/B fire  
bomb (C)

1.2.1.2.3.4.9

Match BLU-27/B  
checklist items with  
their associated notes,  
warnings, cautions,  
tolerances, limits, and  
critical values without  
error.

1.2.1.2.3.4.9.1

Inspect weapons  
(Page:163)

1.2.1.2.3.4

Inspect SUU-25C/A flare  
dispenser

1.2.1.2.3.4.10

Match SUU-25C/A  
checklist items with  
their associated notes,  
warnings, cautions,  
tolerances, limits, and  
critical values without  
error.

1.2.1.2.3.4.10.1

Inspect weapons  
(Page:163)  
1.2.1.2.3.4

Inspect LAU-3/A rocket  
launcher (C)  
1.2.1.2.3.4.11

Match LAU-3A checklist  
items with their  
associated notes,  
warnings, cautions,  
tolerances, limits, and  
critical values without  
error.  
1.2.1.2.3.4.11.1

Inspect weapons  
(Page:163)

1.2.1.2.3.4

Inspect AGM-65A,B  
air-to-ground guided  
missile (C)

1.2.1.2.3.4.12

Match AGM-65A,B  
checklist items with  
their associated notes,  
warnings, cautions,  
tolerances, limits and  
critical values without  
error.

1.2.1.2.3.4.12.1

Inspect weapons  
(Page:163)  
1.2.1.2.3.4

Inspect SUU-20B/A bomb  
and rocket training  
dispenser (T)  
1.2.1.2.3.4.13

Match SUU-20B/A  
checklist items with  
their associated notes,  
warnings, cautions,  
tolerances, limits, and  
critical values without  
error.  
1.2.1.2.3.4.10.1

Inspect weapons  
(Page:163)

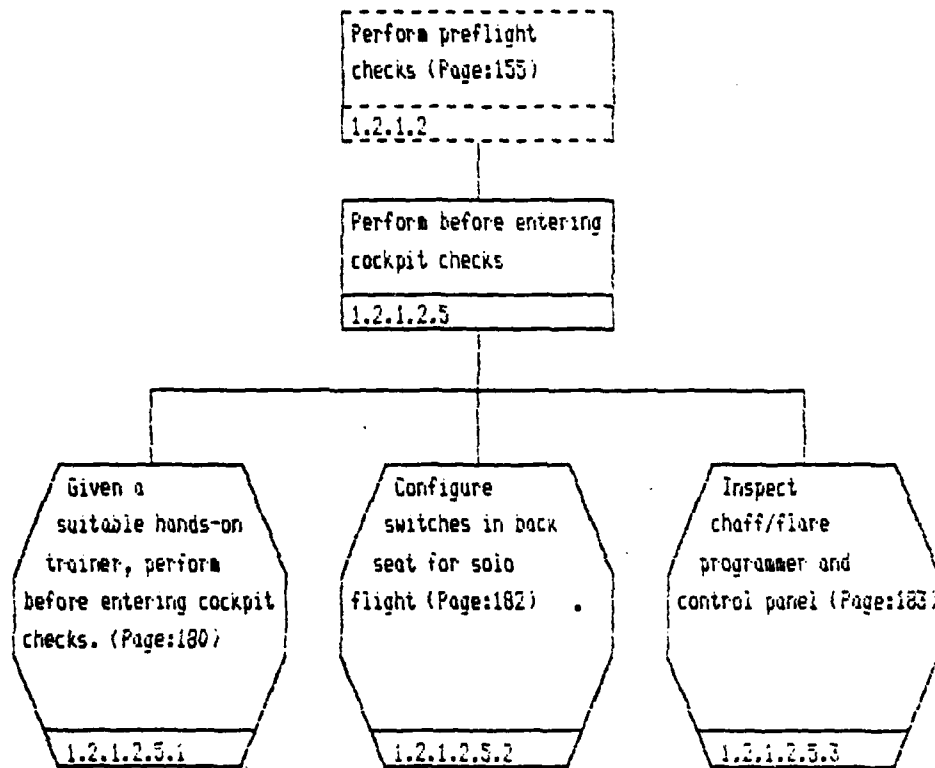
1.2.1.2.3.4

Inspect BDU-33B/E  
practice bomb on  
BRU-31/A or TER-9A bomb  
rack (T)

1.2.1.2.3.4.14

Match BDU-33B/E  
checklist items with  
their associated notes,  
warnings, cautions,  
tolerances, limits, and  
critical values without  
error.

1.2.1.2.3.4.14.1



Perform before entering  
cockpit checks  
(Page:179)  
1.2.1.2.5

Given a suitable  
hands-on trainer,  
perform before entering  
cockpit checks.  
1.2.1.2.5.1

Inspect  
ejection seat  
(Page:181)  
1.2.1.2.5.1.1

Given a suitable  
hands-on trainer,  
perform before entering  
cockpit checks.

(Page:180)

1.2.1.2.5.1

Inspect ejection seat

1.2.1.2.5.1.1

Match ejection seat  
inspection checklist.  
items with their  
associated notes,  
warnings, cautions,  
tolerances, limits, and  
critical values without  
error.

1.2.1.2.5.1.1.1

Perform before entering  
cockpit checks  
(Page:179)  
1.2.1.2.5

Inspect chaff/flare  
programmer and control  
panel  
1.2.1.2.5.3

Match chaff/flare  
programmer and control  
checklist items with  
their associated notes,  
warnings, cautions,  
tolerances, limits, and  
critical values without  
error  
1.2.1.2.5.3.1

Perform normal takeoff  
procedures (Page:152)

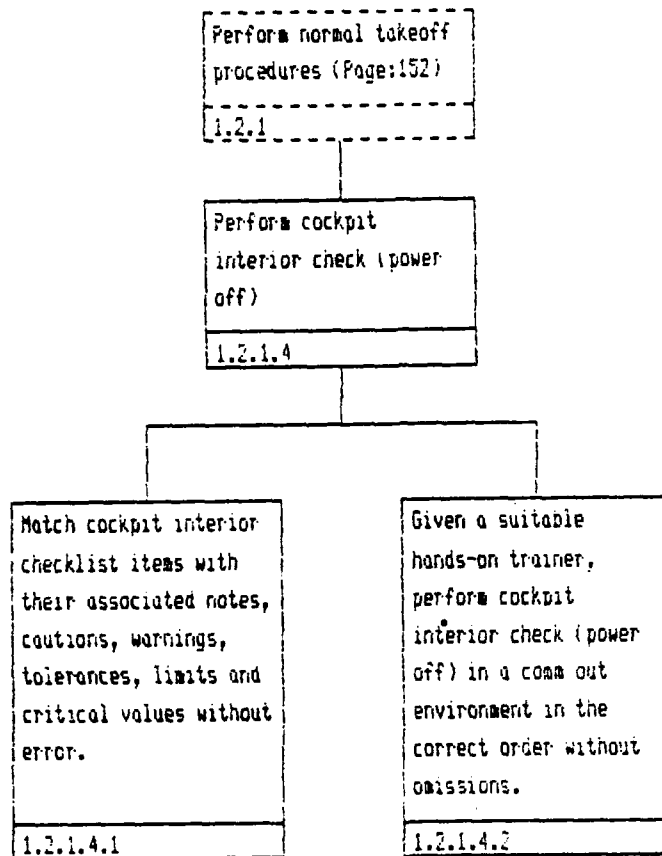
1.2.1

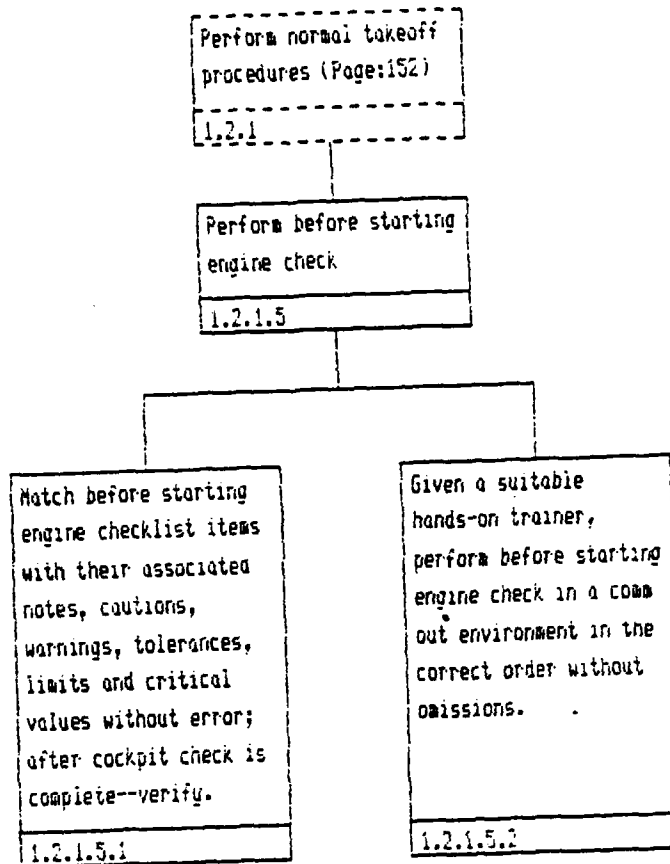
Perform cockpit  
ingress, including  
strap-in

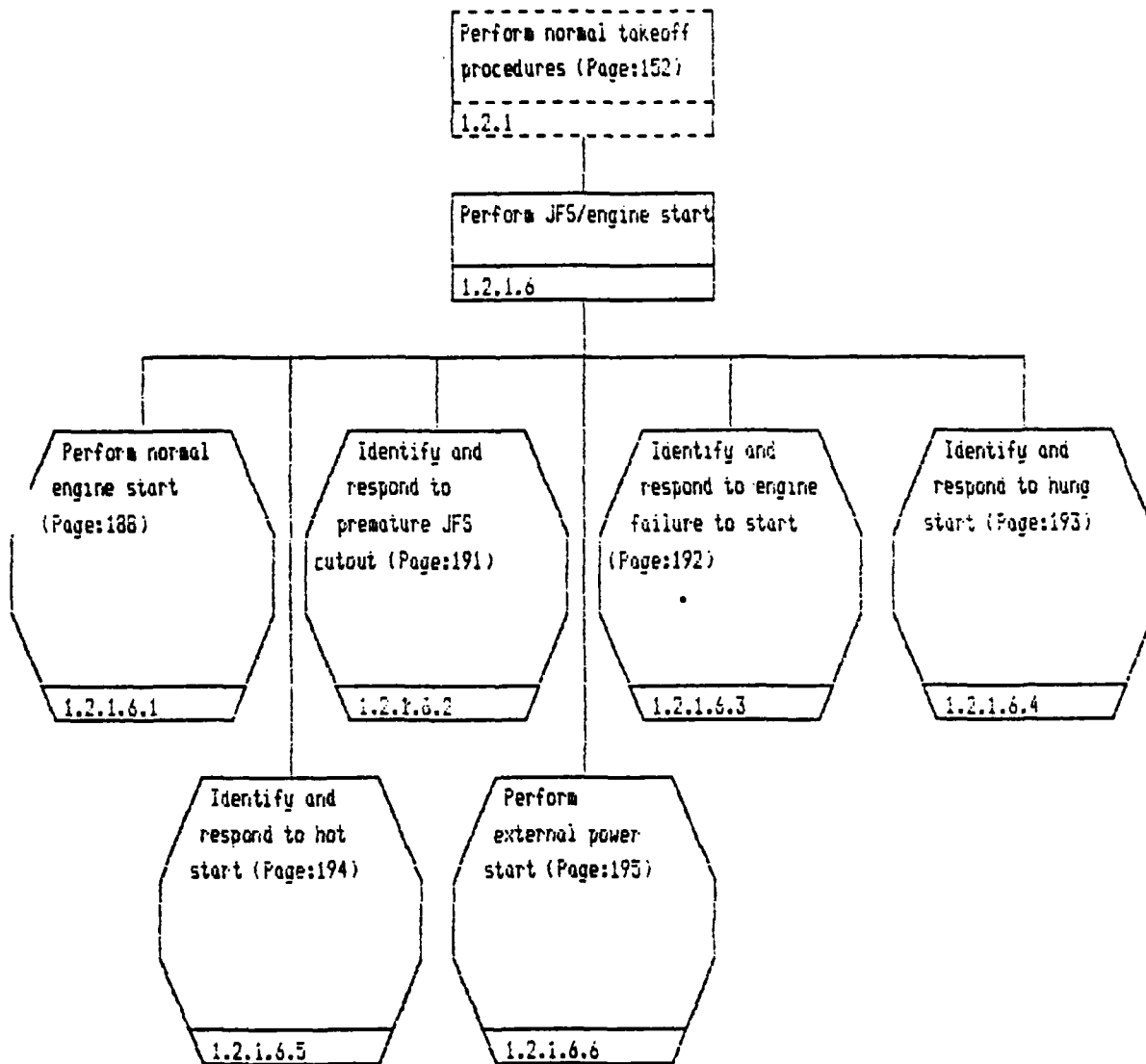
1.2.1.3

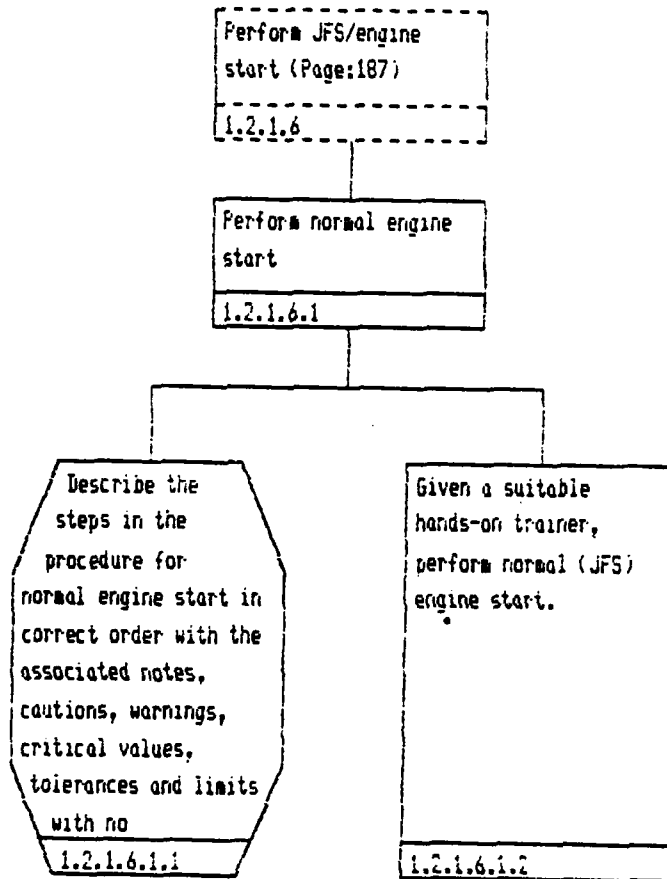
Describe the cockpit  
ingress procedure,  
including strap-in,  
with its associated  
notes, cautions,  
warnings, critical  
values, tolerances and  
limits.

1.2.1.3.1









Perform normal engine  
start (Page:188)

1.2.1.6.1

Describe the steps in  
the procedure for  
normal engine start in  
correct order with the  
associated notes,  
cautions, warnings,  
critical values,  
tolerances and limits  
with no omissions.

1.2.1.6.1.1

System  
workbook--engine  
system. (Page:190)

1.2.1.6.1.1.1

Describe the steps in the procedure for normal engine start in correct order with the associated notes, cautions, warnings, critical values, tolerances and limits with no omissions.  
(Page:189)

1.2.1.6.1.1

System workbook--engine system.

1.2.1.6.1.1.1

Describe the engine system in the F-16A and F-16B aircraft.

1.2.1.6.1.1.1.1

List with no omissions and describe without error the components and/or functions of the engine system, including as appropriate the sequence and modes of internal and external operation.

1.2.1.6.1.1.1.2

Given a photograph or drawing of the aircraft cockpit, locate and describe the function and manipulation of each control that directly affects the engine system, without error.

1.2.1.6.1.1.1.3

Given a photograph or drawing of the aircraft cockpit, locate and describe the interpretation of each indicator that monitors the engine system, without error.

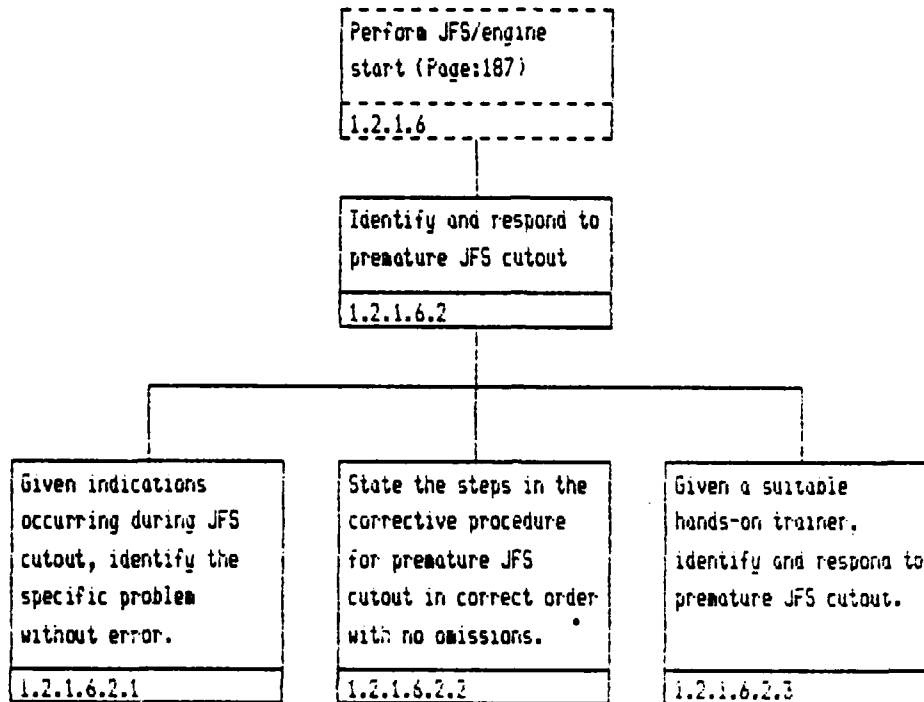
1.2.1.6.1.1.1.4

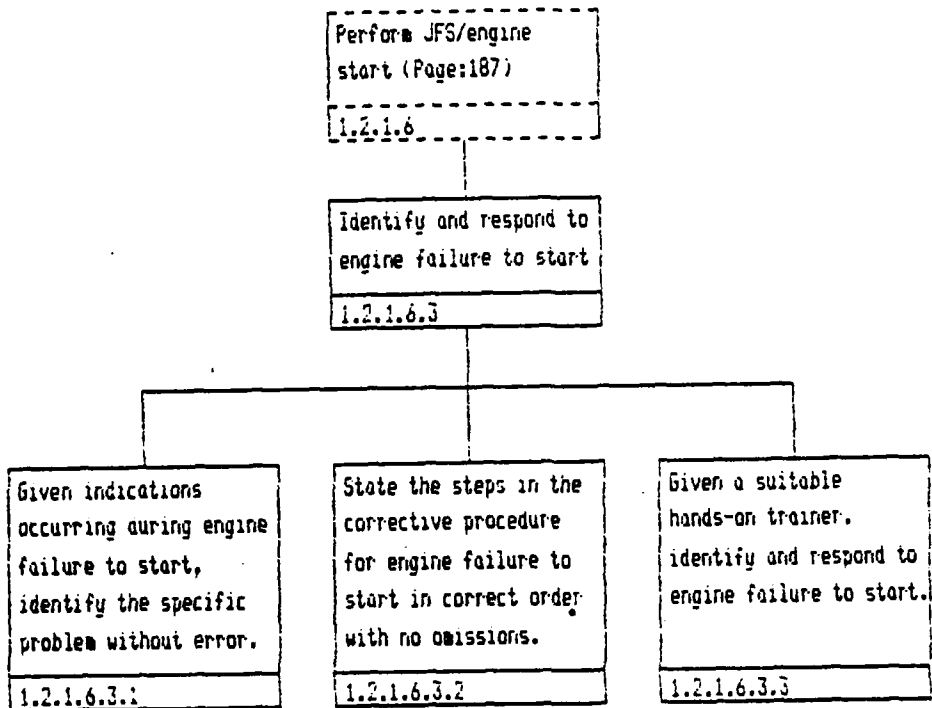
State the possible modes of engine system degradation, and describe their causes and consequences, without error.

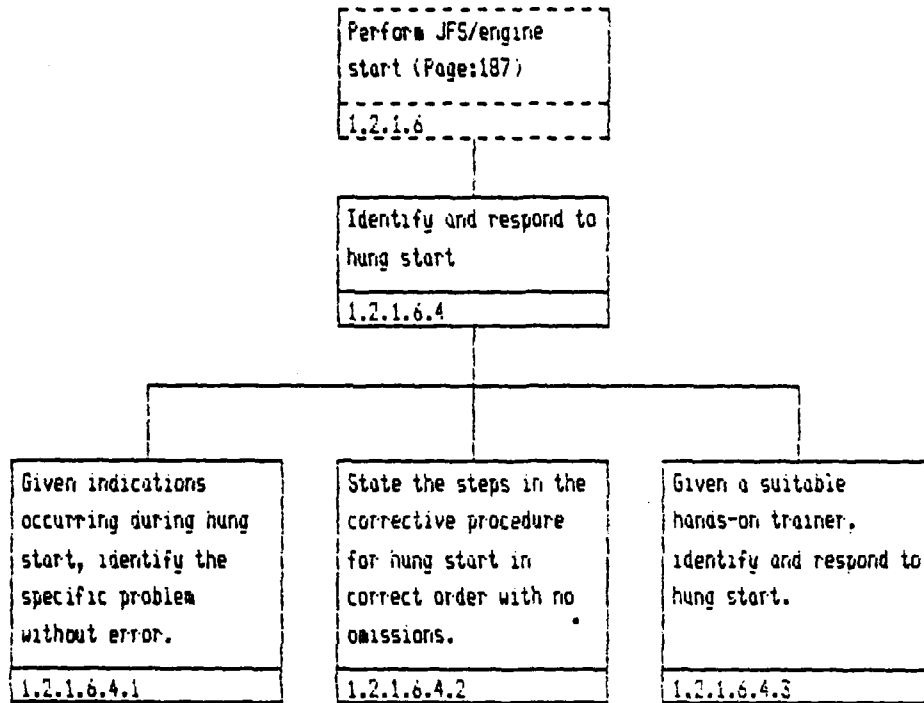
1.2.1.6.1.1.1.5

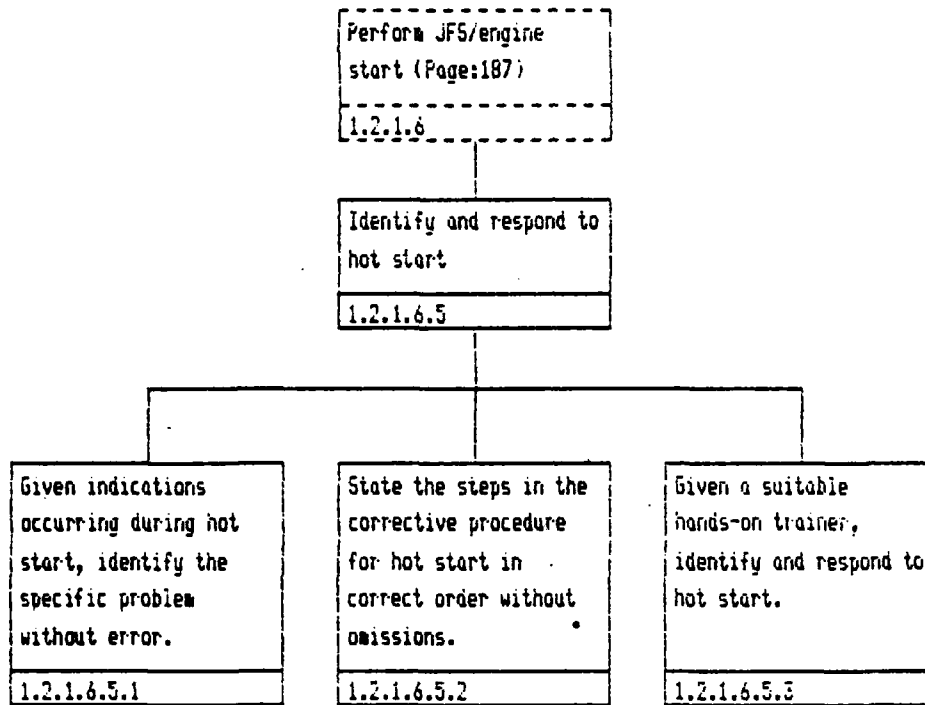
List with no omissions and describe without error any features of the engine system in the F-16B that differ or are in addition to those in the F-16A.

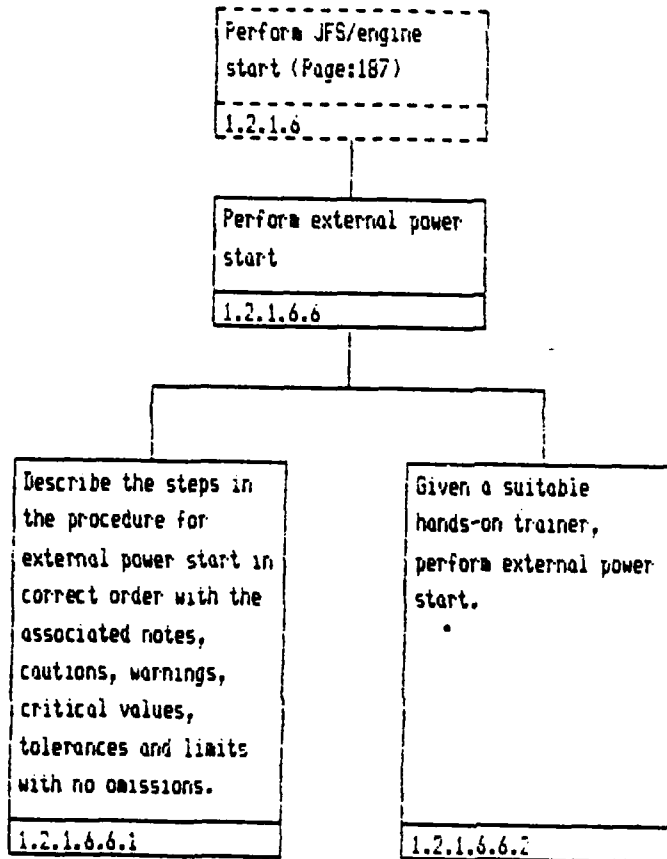
1.2.1.6.1.1.1.6



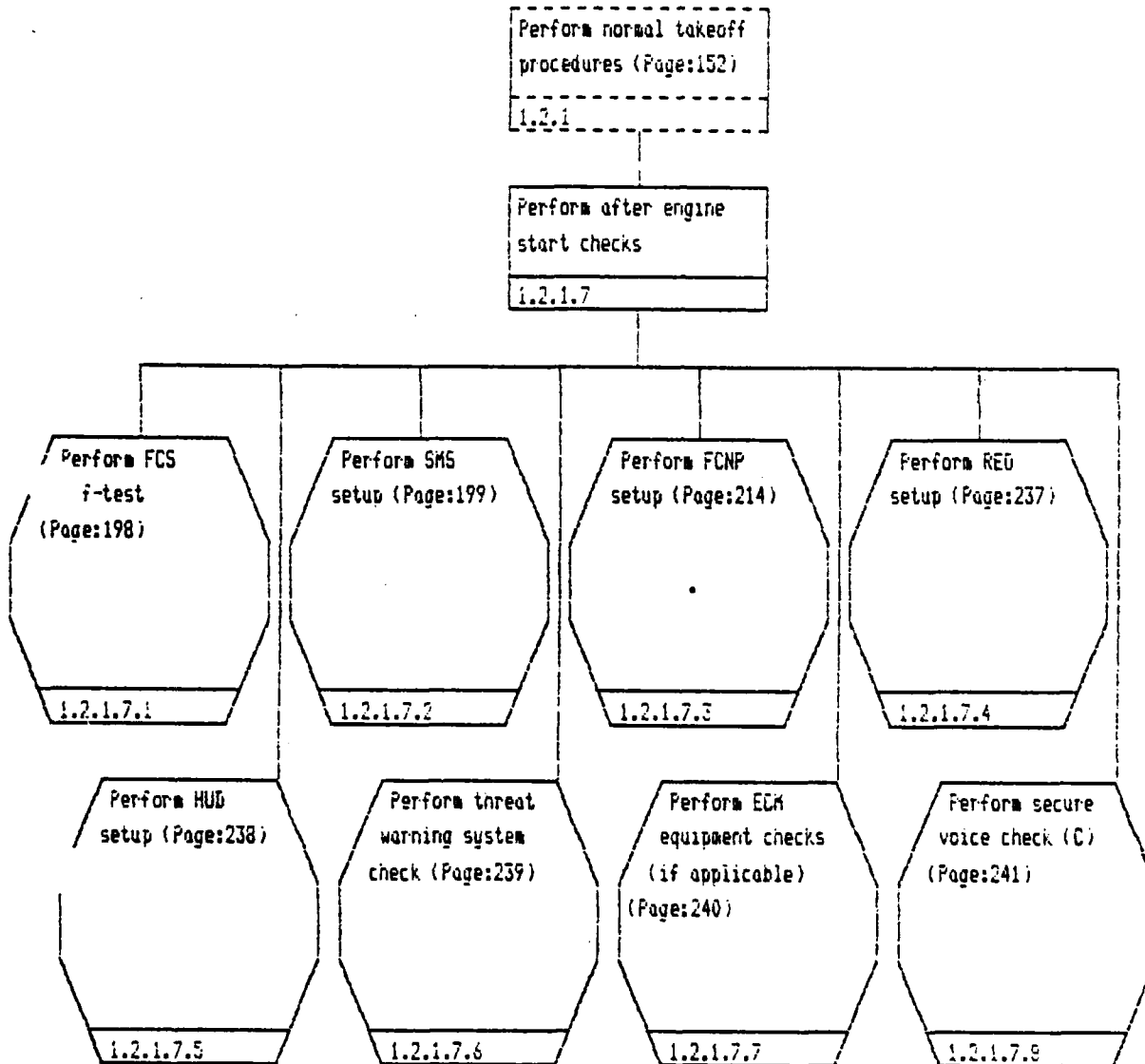




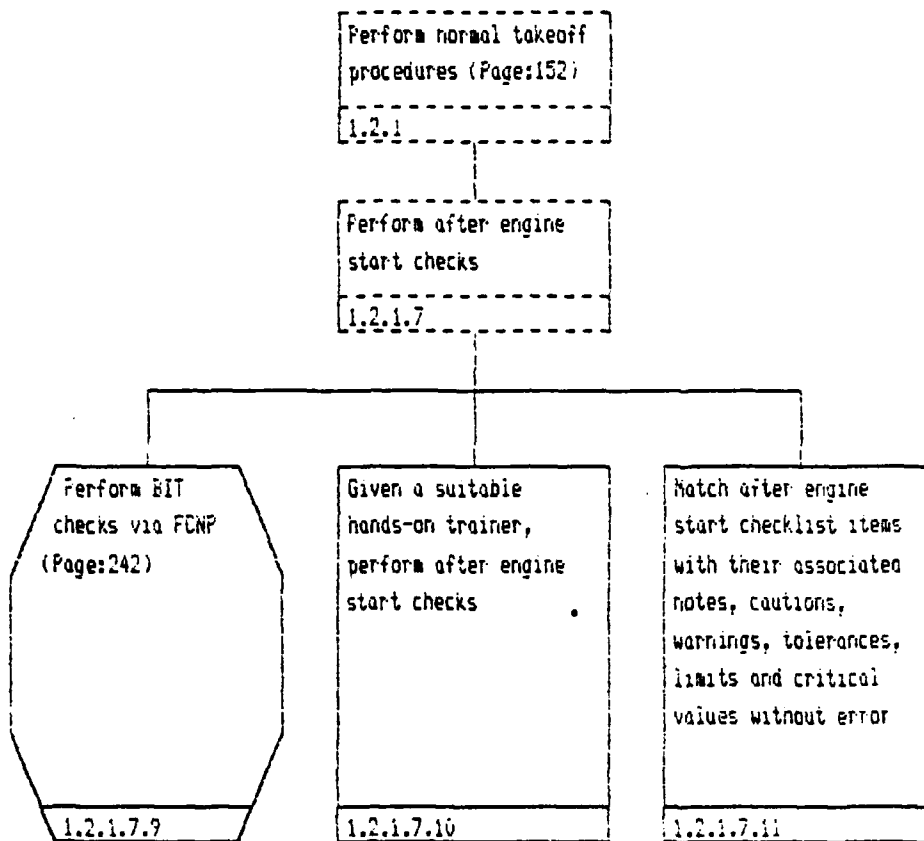


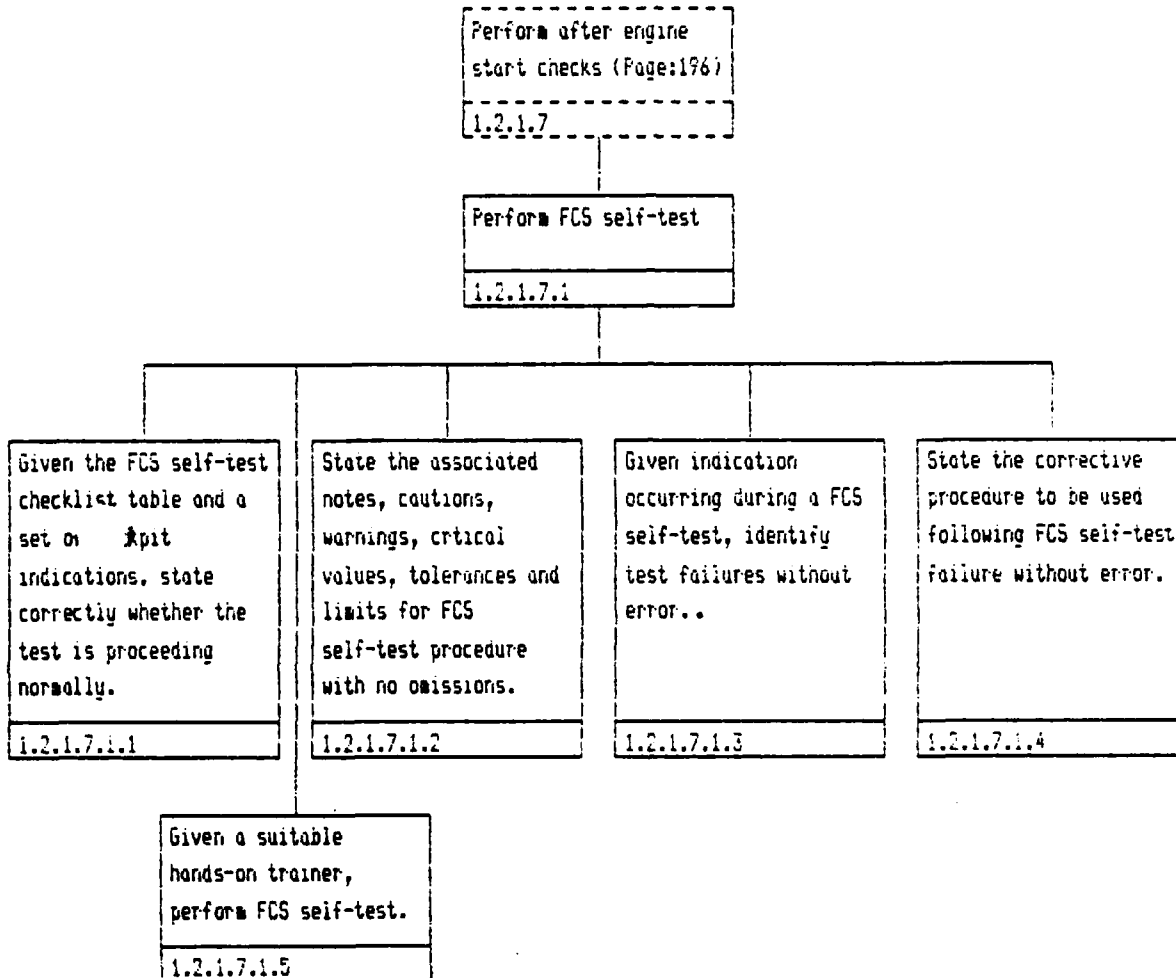


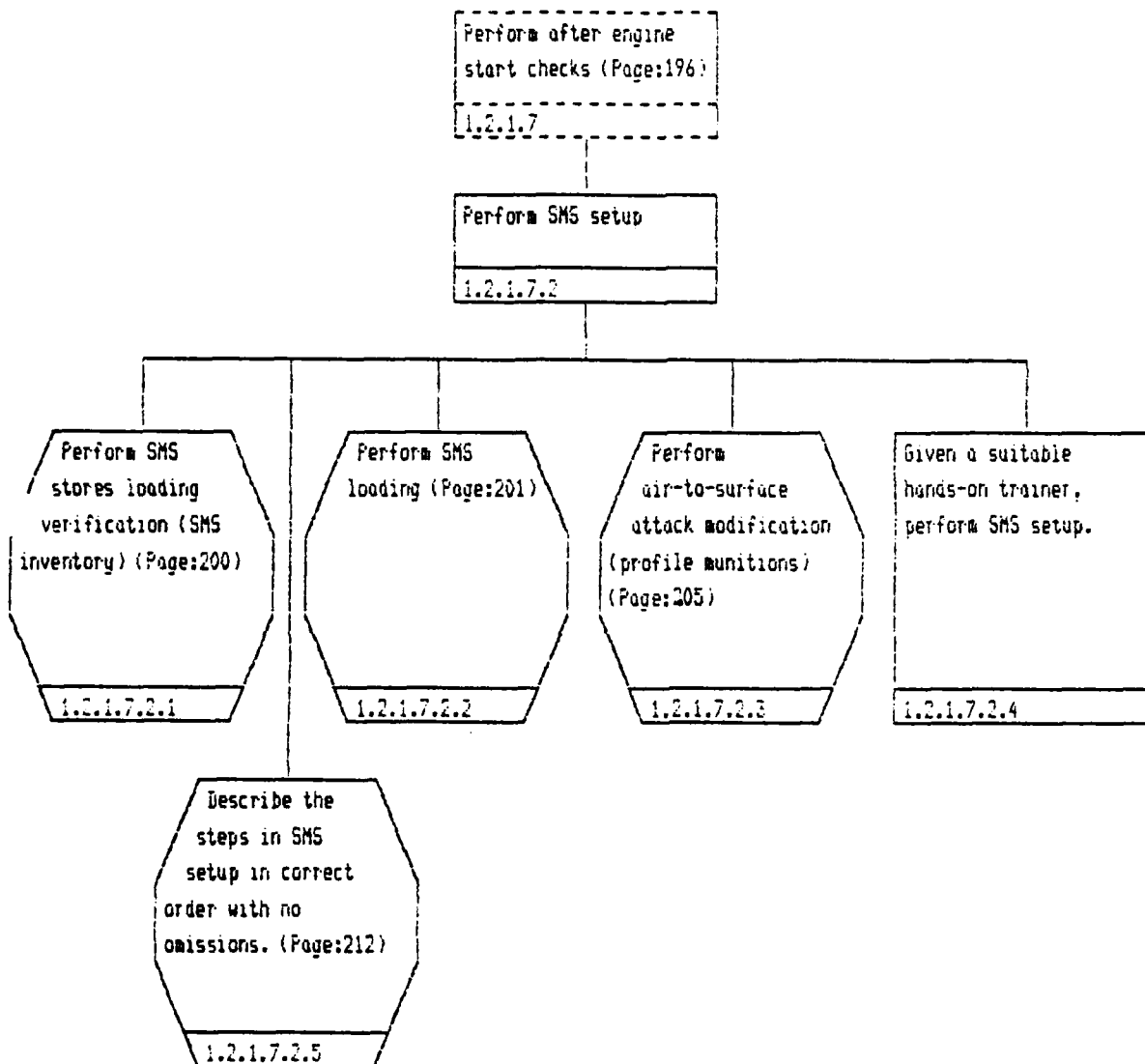
Continued on page: 197

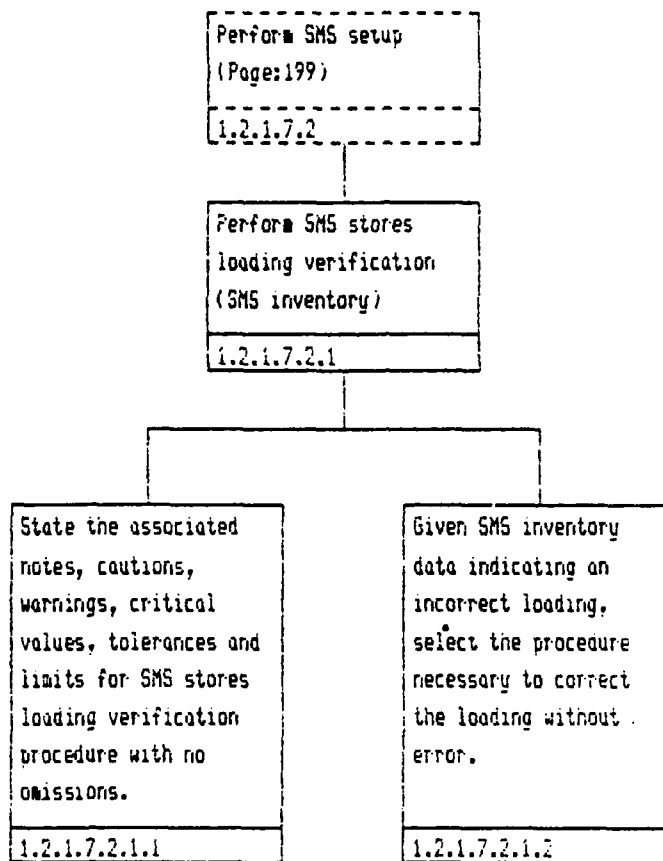


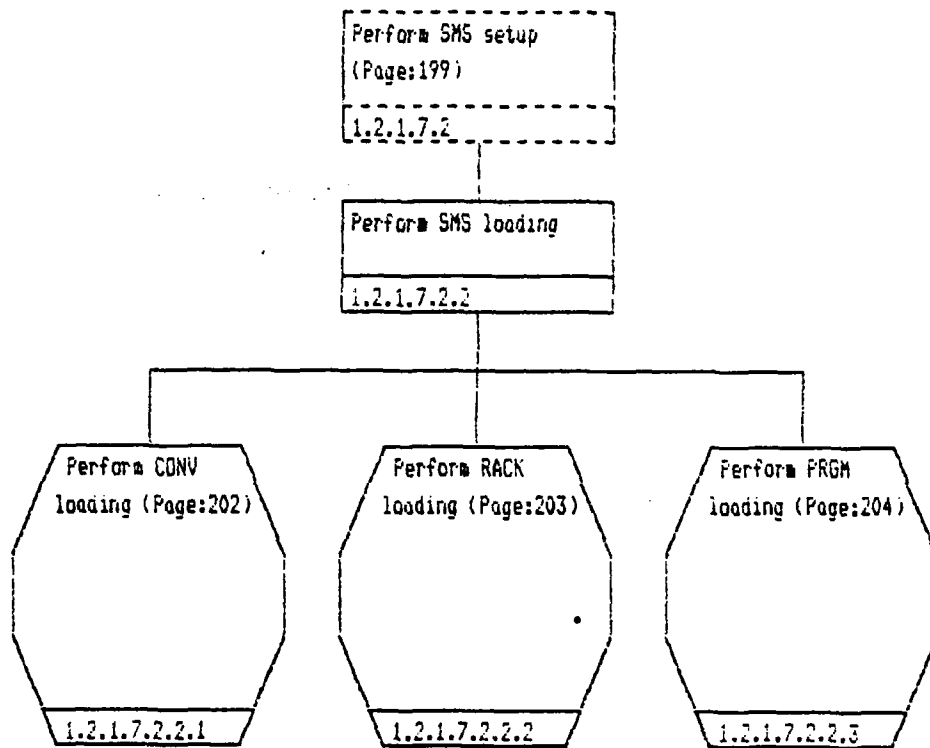
Continued from page: 196











Perform SMS loading  
(Page:201)  
1.2.1.7.2.2

Perform CONV loading  
1.2.1.7.2.2.1

State the associated  
notes, cautions,  
warnings, critical  
values, tolerances, and  
limits for conventional  
loading procedure with  
no omissions.  
1.2.1.7.2.2.1.1

Perform SMS loading  
(Page:201)

1.2.1.7.2.2

Perform RACK loading

1.2.1.7.2.2.2

State the associated  
notes, cautions,  
warnings, critical  
values, tolerances, and  
limits for RACK loading  
procedure with no  
omissions.

1.2.1.7.2.2.2.1

Perform SMS loading  
(Page:201)

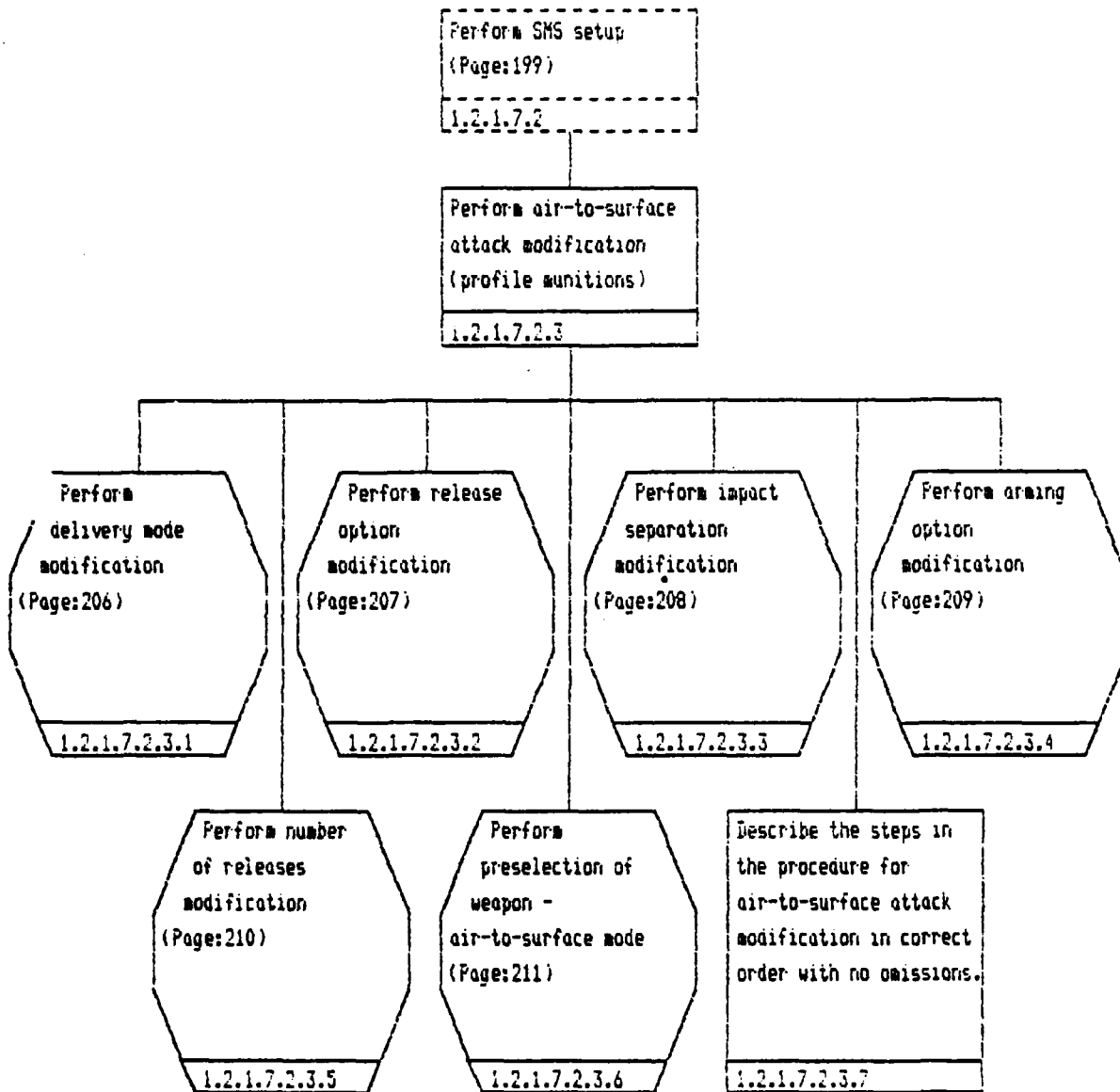
1.2.1.7.2.2

Perform PRGM loading

1.2.1.7.2.2.3

State the associated  
notes, cautions,  
warnings, critical  
values, tolerances and  
limits for PRGM loading  
procedure with no  
omissions.

1.2.1.7.2.2.3.1



Perform air-to-surface  
attack modification  
(profile munitions)  
(Page:205)

1.2.1.7.2.3

Perform delivery mode  
modification

1.2.1.7.2.3.1

Describe the steps in  
the procedure for  
delivery mode  
modification in correct  
order with the  
associated notes,  
cautions, warnings,  
critical values,  
tolerances and limits  
with no omissions.

1.2.1.7.2.3.1.1

Perform air-to-surface  
attack modification  
(profile munitions)  
(Page:205)  
1.2.1.7.2.3

Perform release option  
modification  
1.2.1.7.2.3.2

Describe the steps in  
the procedure for  
release option  
modification in correct  
order with the  
associated notes,  
warnings, cautions,  
critical values,  
tolerances and limits  
with no omissions.  
1.2.1.7.2.3.2.1

Perform air-to-surface  
attack modification  
(profile munitions)  
(Page:205)

1.2.1.7.2.3

Perform impact  
separation modification

1.2.1.7.2.3.3

Describe the steps in  
the procedure for  
impact separation  
modification in correct  
order with the  
associated notes,  
cautions, warnings,  
critical values,  
tolerances and limits  
with no omissions.

1.2.1.7.2.3.3.1

Perform air-to-surface  
attack modification  
(profile munitions)  
(Page:205)

1.2.1.7.2.3

Perform arming option  
modification

1.2.1.7.2.3.4

Describe the steps in  
the procedure for  
arming option  
modification in correct  
order with the  
associated notes,  
cautions, warnings,  
critical values,  
tolerances and limits  
with no omissions.

1.2.1.7.2.3.4.i

Perform air-to-surface  
attack modification  
(profile munitions)  
(Page:205)

1.2.1.7.2.3

Perform number of  
releases modification

1.2.1.7.2.3.5

Describe the steps in  
the procedure for  
number of releases  
modification in correct  
order with the  
associated notes,  
cautions, warnings,  
critical values,  
tolerances and limits  
with no omissions.

1.2.1.7.2.3.5.1

Perform air-to-surface  
attack modification  
(profile munitions)  
(Page:205)

1.2.1.7.2.3

Perform preselection of  
weapon - air-to-surface  
mode

1.2.1.7.2.3.6

Describe the steps in  
the procedure for  
preselection of  
weapon--air-to-surface  
mode--in correct order  
with the associated  
notes, cautions,  
warnings, critical  
values, tolerances and  
limits with no

1.2.1.7.2.3.6.1

Perform SMS setup  
(Page:199)  
1.2.1.7.2

Describe the steps in  
SMS setup in correct  
order with no omissions.  
1.2.1.7.2.5

System  
Workbook-Stores  
management system  
(Page:213)  
1.2.1.7.2.5.1

Describe the steps in  
SMS setup in correct  
order with no  
omissions. (Page:212)

1.2.1.7.2.5

System Workbook-Stores  
management system

1.2.1.7.2.5.1

Describe the stores  
management system in  
the F-16A and F-16B  
aircraft.

1.2.1.7.2.5.1.1

List with no omissions  
and describe without  
error the components  
and/or functions of the  
stores management  
system, including as  
appropriate the  
sequence and modes of  
internal and external  
operation.

1.2.1.7.2.5.1.2

Given a photograph or  
drawing of the aircraft  
cockpit, locate and  
describe the function  
and manipulation of  
each control that  
directly affects the  
stores management  
system, without error.

1.2.1.7.2.5.1.3

Given a photograph or  
drawing of the aircraft  
cockpit, locate and  
describe the  
interpretation of each  
indicator that monitors  
the stores management  
system without error.

1.2.1.7.2.5.1.4

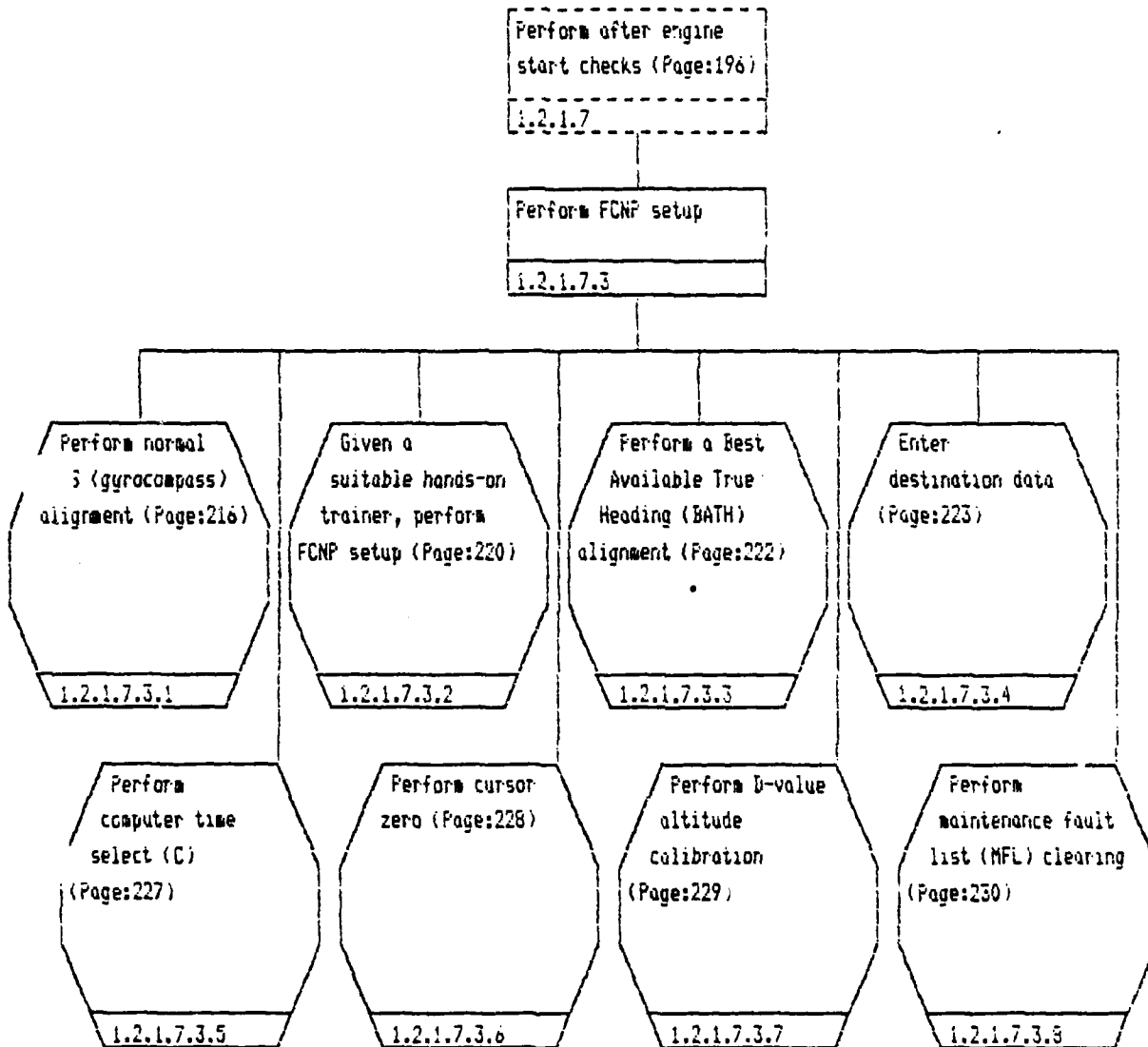
State the possible  
modes of stores  
management system  
degradation, and  
describe their causes  
and consequences,  
without error.

1.2.1.7.2.5.1.5

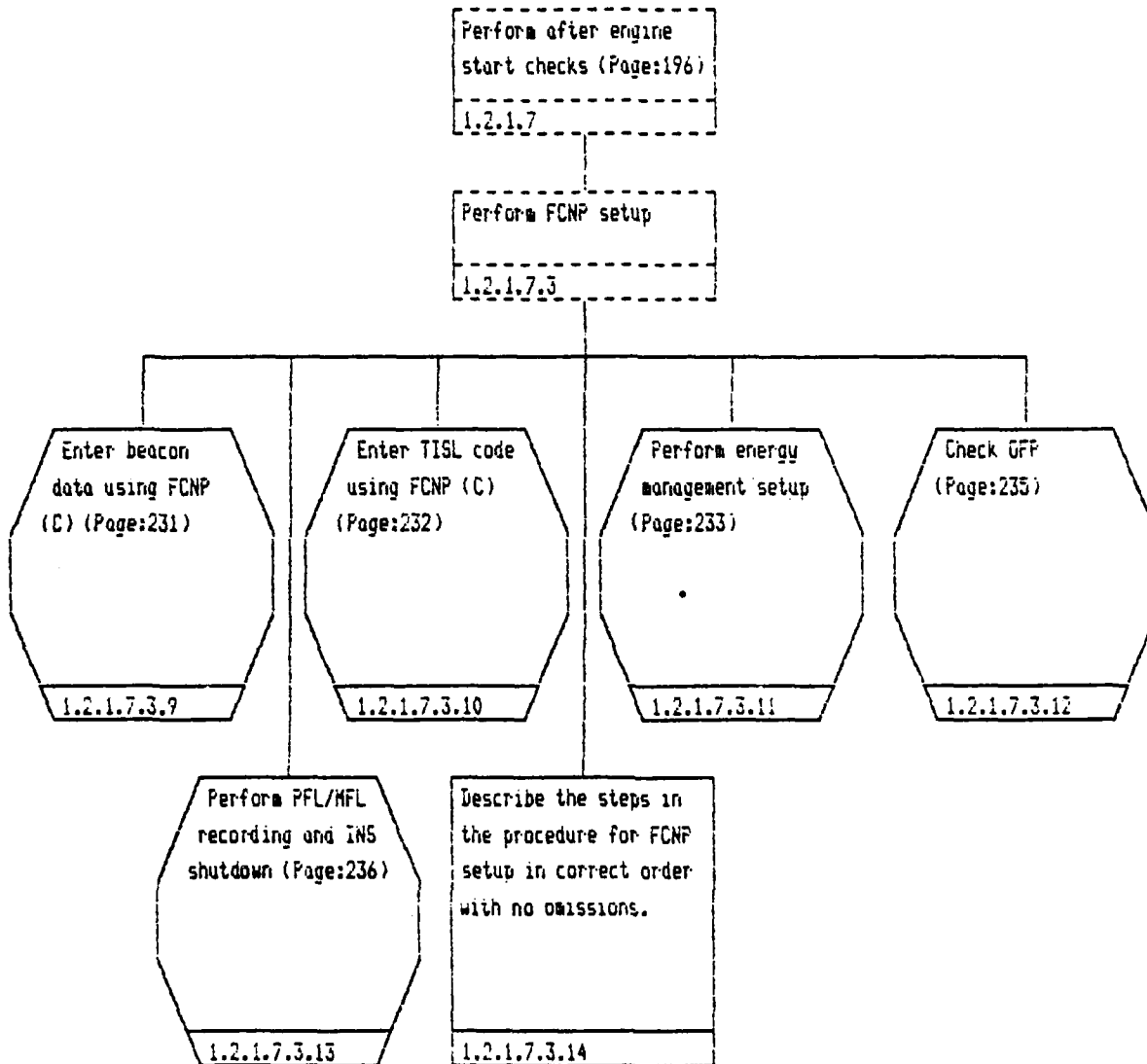
List with no omissions  
and describe without  
error any features of  
the stores management  
system in the F-16B  
that differ or are in  
addition to those in  
the F-16A

1.2.1.7.2.5.1.6

Continued on page: 215

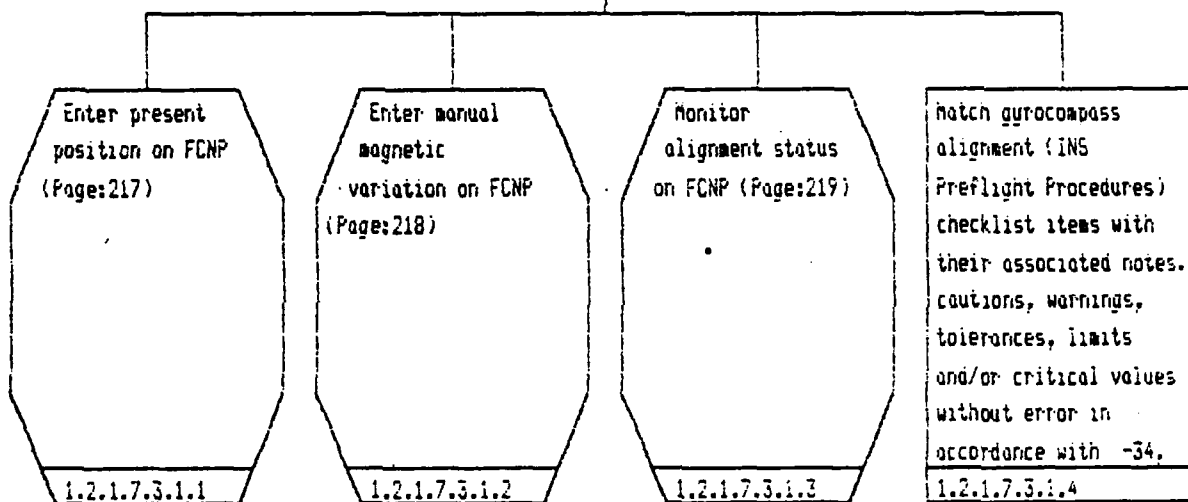


Continued from page: 214



Perform FCNP setup  
(Page:214)  
1.2.1.7.3

Perform normal INS  
(gyrocompass) alignment  
1.2.1.7.3.1



Perform normal INS  
(gyrocompass) alignment  
(Page:216)  
1.2.1.7.3.1

Enter present position  
on FCNP  
1.2.1.7.3.1.1

Describe the steps in  
the procedure for  
entering present  
position on FCNP in  
correct order with the  
associated notes,  
cautions, warnings,  
critical values,  
tolerances and limits  
with no omissions.  
1.2.1.7.3.1.1.1

Perform normal INS  
(gyrocompass) alignment  
(Page:216)  
1.2.1.7.3.1

Enter manual magnetic  
variation on FCNP  
1.2.1.7.3.1.2

Describe the steps in  
the procedure for  
entering manual  
variation on FCNP in  
correct order with the  
associated notes,  
cautions, warnings,  
critical values,  
tolerances and limits  
with no omissions.  
1.2.1.7.3.1.2.1

Perform normal INS  
(gyrocompass) alignment  
(Page:216)

1.2.1.7.3.1

Monitor alignment  
status on FCNP

1.2.1.7.3.1.3

Describe the steps in  
the procedure for  
monitoring alignment  
status on FCNP with the  
associated notes,  
cautions, warnings,  
critical values,  
tolerances and limits  
with no omissions.

1.2.1.7.3.1.3.1

Perform FCNP setup  
(Page:214)  
1.2.1.7.3

Given a suitable  
hands-on trainer, .  
perform FCNP setup  
1.2.1.7.3.2

Perform a  
stored heading  
alignment (Page:221)  
1.2.1.7.3.2.1

Given a suitable  
hands-on trainer,  
perform FCNP setup  
(Page:220)

1.2.1.7.3.2

Perform a stored  
heading alignment

1.2.1.7.3.2.1

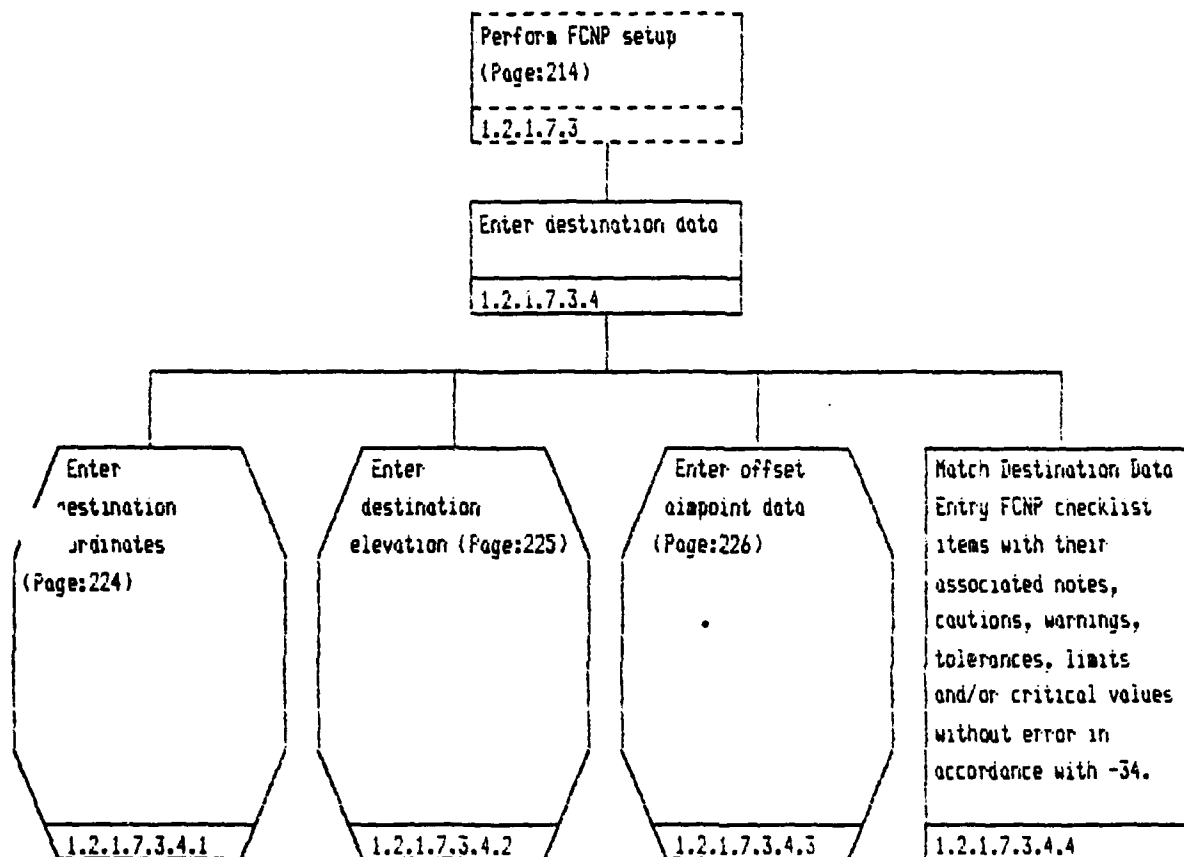
Match stored heading  
alignment (INS  
preflight procedures;  
checklist items with  
their associated notes,  
cautions, warnings,  
tolerances, limits  
and/or critical values  
without error in  
accordance with -34, -1.

1.2.1.7.3.2.1.1

Perform FCNP setup  
(Page:214)  
1.2.1.7.3

Perform a Best  
Available True Heading  
(BATH) alignment  
1.2.1.7.3.3

Match Best Available  
True Heading (BATH)  
alignment (INS  
preflight procedures)  
checklist items with  
their associated notes,  
cautions, warnings,  
tolerances, limits  
and/or critical values  
without error in  
1.2.1.7.3.3.1



Enter destination data  
(Page:223)  
1.2.1.7.3.4

Enter destination  
coordinates  
1.2.1.7.3.4.1

Describe the steps in  
the procedure for  
entering destination  
coordinates in correct  
order with no omissions.  
1.2.1.7.3.4.1.1

Enter destination data  
(Page:223)  
1.2.1.7.3.4

Enter destination  
elevation  
1.2.1.7.3.4.2

Describe the steps in  
the procedure for  
entering destination  
elevation in correct  
order with no omissions.  
1.2.1.7.3.4.2.1

Enter destination data  
(Page:223)

1.2.1.7.3.4

Enter offset aimpoint  
data

1.2.1.7.3.4.3

Describe the steps in  
the procedure for  
entering offset  
aimpoint data in  
correct order with no  
omissions.

1.2.1.7.3.4.3.1

Perform FCNP setup  
(Page:214)

1.2.1.7.3

Perform cursor zero

1.2.1.7.3.6

Match cursor zero (INS  
preflight procedures)  
checklist items with  
their associated notes,  
cautions, warnings, .  
tolerances, limits  
and/or critical values  
without error in  
accordance with -1.

1.2.1.7.3.6.1

Perform FCNP setup  
(Page:214)

1.2.1.7.3

Perform D-value  
altitude calibration

1.2.1.7.3.7

Match D-value altitude  
calibration (INS  
preflight procedures)  
checklist items with  
their associated notes,  
cautions, warnings,  
tolerances, limits  
and/or critical values  
without error in  
accordance with -1.

1.2.1.7.3.7.1

Perform FCNP setup  
(Page:214)

1.2.1.7.3

Perform maintenance  
fault list (MFL)  
clearing

1.2.1.7.3.8

Match Maintenance Fault  
List (MFL) clearing  
(INS preflight  
procedures) checklist  
items with their  
associated notes,  
cautions, warnings,  
tolerances, limits  
and/or critical values  
without error in

1.2.1.7.3.8.1

Perform FCNP setup  
(Page:214)

1.2.1.7.3

Enter beacon data using  
FCNP (C)

1.2.1.7.3.9

Match Beacon Data Entry  
FCNP checklist items  
with their associated  
notes, cautions,  
warnings, tolerances,  
limits and/or critical  
values without error in  
accordance with -34.

1.2.1.7.3.9.i

Perform FCNP setup  
(Page:214)

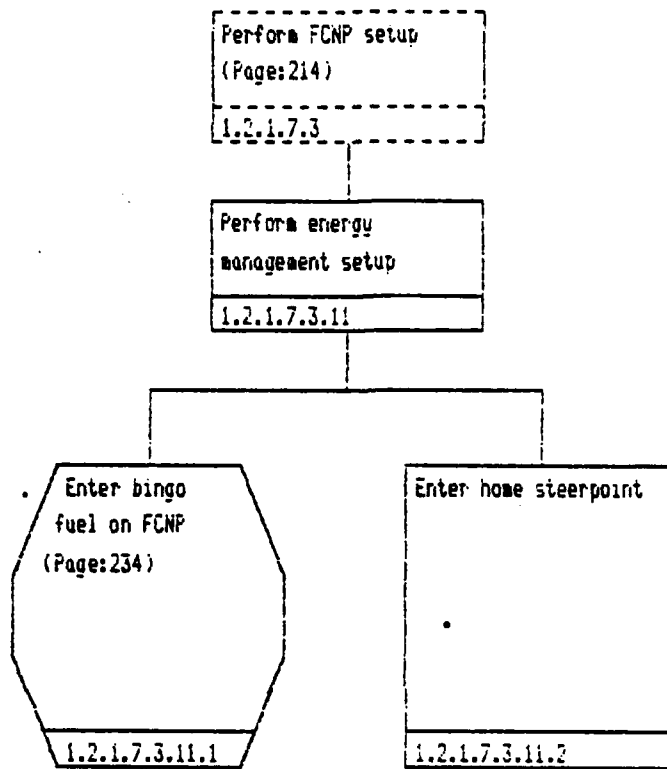
1.2.1.7.3

Enter TISL code using  
FCNP (C)

1.2.1.7.3.10

Match TISL Data Entry  
FCNP checklist items  
with their associated  
notes, cautions,  
warnings, tolerances,  
limits and/or critical  
values without error in  
accordance with -34.

1.2.1.7.3.10.1



Perform energy  
management setup  
(Page:233)  
1.2.1.7.3.11

Enter bingo fuel on FCNF  
1.2.1.7.3.11.1

Describe the steps in  
the procedure for  
entering BINGO fuel on  
FCNF in correct order  
with the associated  
notes, cautions,  
warnings, critical  
values, tolerances and  
limits with no  
omissions.  
1.2.1.7.3.11.1.1

Perform FCNP setup  
(Page:214)  
1.2.1.7.3

Check GFP  
1.2.1.7.3.12

Describe the steps in  
the procedure for  
checking GFP in correct  
order with the  
associated notes, .  
cautions, warnings,  
critical values,  
tolerances and limits  
with no omissions.  
1.2.1.7.3.12.1

Perform FCNP setup  
(Page:214)

1.2.1.7.3

Perform PFL/MFL  
recording and INS  
shutdown

1.2.1.7.3.13

Describe the procedures  
for PFL/MFL recording  
and INS shutdown

1.2.1.7.3.13.1

Perform after engine  
start checks (Page:196)

1.2.1.7

Perform REQ setup

1.2.1.7.4

Describe the steps in  
the procedure for  
performing REQ setup in  
correct order with the  
associated notes,  
cautions, warnings,  
critical values,  
tolerances and limits  
with no omissions.

1.2.1.7.4.1

Perform after engine  
start checks (Page:196)

1.2.1.7

Perform HUD setup

1.2.1.7.5

Match Head Up Display  
(Initial Power Up)  
Checklist items with  
their associated notes,  
cautions, warnings, .  
tolerances, limits  
and/or critical values  
without error in  
accordance with -34.

1.2.1.7.5.1

Perform after engine  
start checks (Page:196)

1.2.1.7

Perform threat warning  
system check

1.2.1.7.6

Match Threat Warning  
System checklist items  
with their associated  
notes, cautions,  
warnings, tolerances,  
limits and/or critical  
values without error in  
accordance with -34.

1.2.1.7.6.1

Perform after engine  
start checks (Page:196)

1.2.1.7

Perform ECM equipment  
checks (if applicable)

1.2.1.7.7

Describe the steps in  
the procedure for  
performing ECM  
equipment checks in  
correct order with no  
omissions.

1.2.1.7.7.1

Perform after engine  
start checks (Page:196)

1.2.1.7

Perform BIT checks via  
FCNP

1.2.1.7.9

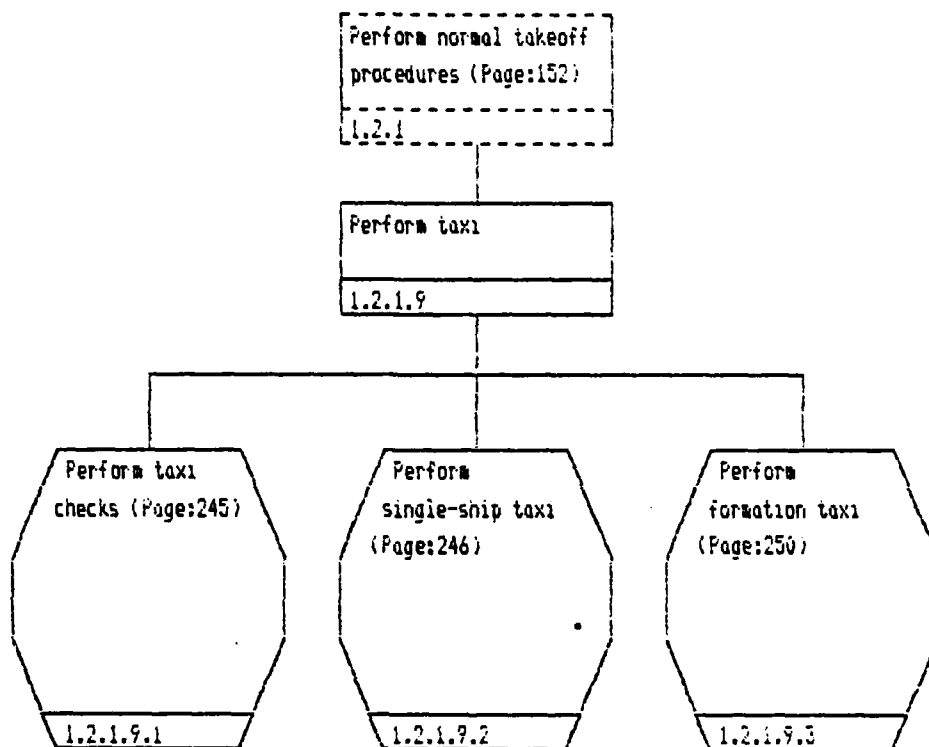
State the correct  
procedure for  
initiating built-in  
test (BIT) sequences  
via the FCNP in  
accordance with the  
checklist and/or  
Avionics Manual.

1.2.1.7.9.1

Perform normal takeoff  
procedures (Page:152)  
1.2.1

Perform before taxi  
checks  
1.2.1.8

Match before taxi  
checklist items with  
their associated notes,  
cautions, warnings,  
tolerances, limits  
and/or critical values  
without error in  
accordance with -1.  
1.2.1.8.1



Perform taxi (Page:244)

1.2.1.9

Perform taxi checks

1.2.1.9.1

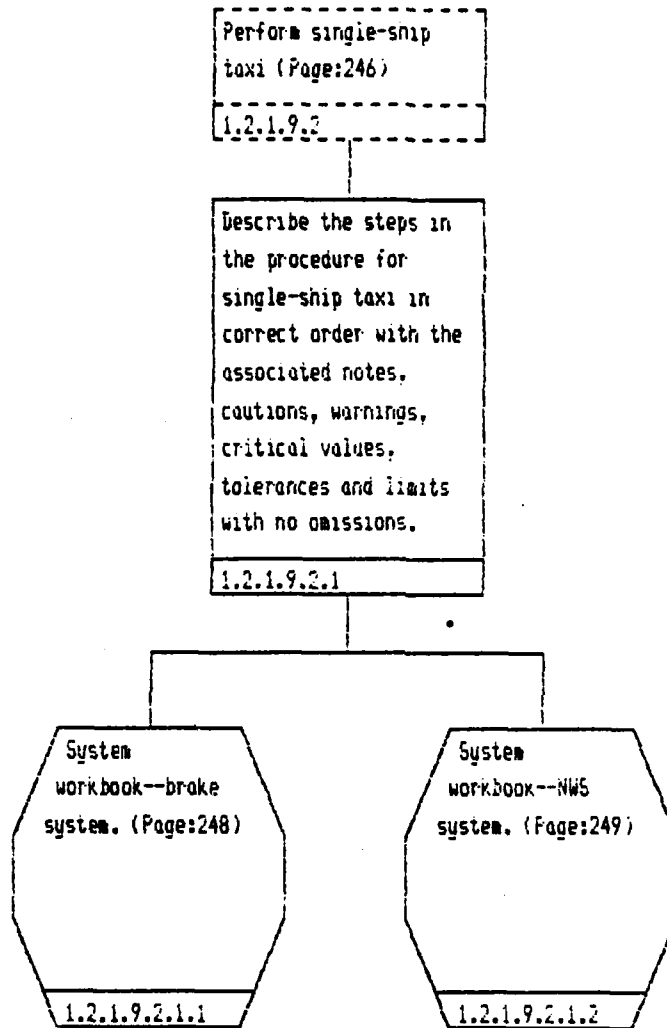
Match taxi checklist  
items with their  
associated notes,  
cautions, warnings,  
limits and/or critical  
values without error in  
accordance with -1.

1.2.1.9.1.1

Perform taxi (Page:244)  
1.2.1.9

Perform single-ship taxi  
1.2.1.9.2

Describe the  
steps in the  
procedure for  
single-ship taxi in  
correct order with the  
associated notes,  
cautions, warnings,  
critical values,  
tolerances and limits  
with no  
1.2.1.9.2.1



Describe the steps in the procedure for single-ship taxi in correct order with the associated notes, cautions, warnings, critical values, tolerances and limits with no omissions.

(Page:247)

1.2.1.9.2.1

System workbook--brake system.

1.2.1.9.2.1.1

Describe the brake system in the F-16A and F-16B aircraft.

1.2.1.9.2.1.1.1

List with no omissions and describe without error the components and/or functions of the brake system, including as appropriate the sequence and modes of internal and external operation.

1.2.1.9.2.1.1.2

Given a photograph or drawing of the aircraft cockpit, locate and describe the function and manipulation of each control that directly affects the brake system, without error.

1.2.1.9.2.1.1.3

Given a photograph or drawing of the aircraft cockpit, locate and describe the interpretation of each indicator that monitors the brake system, without error.

1.2.1.9.2.1.1.4

State the possible modes of brake system degradation, and describe their causes and consequences, without error.

1.2.1.9.2.1.1.5

List with no omissions and describe without error any features of the brake system in the F-16B that differ or are in addition to those in the F-16A.

1.2.1.9.2.1.1.6

Describe the steps in the procedure for single-ship taxi in correct order with the associated notes, cautions, warnings, critical values, tolerances and limits with no omissions.  
(Page:247)

1.2.1.9.2.1

System workbook--NWS system.

1.2.1.9.2.1.2

Describe the NWS system in the F-16A and F-16B aircraft

1.2.1.9.2.1.2.1

List with no omissions and describe without error the components and/or functions of the NWS system, including as appropriate the sequence and modes of internal and external operation.

1.2.1.9.2.1.2.2

Given a photograph or drawing of the aircraft cockpit, locate and describe the function and manipulation of each control that directly affects the NWS system, without error.

1.2.1.9.2.1.2.3

Given a photograph or drawing of the aircraft cockpit, locate and describe the interpretation of each indicator that monitors the NWS system without error.

1.2.1.9.2.1.2.4

State the possible modes of NWS system degradation, and describe their causes and consequences, without error.

1.2.1.9.2.1.2.5

List with no omissions and describe without error any features of the NWS system in the F-16B that differ or are in addition to those in the F-16A.

1.2.1.9.2.1.2.6

Perform taxi (Page:244)

1.2.1.9

Perform formation taxi

1.2.1.9.3

Describe the procedures  
and techniques for  
formation taxi in the  
F-16.

1.2.1.9.3.1

.

Perform normal takeoff  
procedures (Page:152)

1.2.1

Accomplish maintenance  
draining  
procedures/maintenance  
checks

1.2.1.10

Describe the steps in  
the procedure for  
accomplishing  
maintenance draining  
procedures/maintenance  
checks in correct order  
with the associated  
notes, cautions,  
warnings, critical  
values, tolerances and

1.2.1.10.1

Perform normal takeoff  
procedures (Page:152)

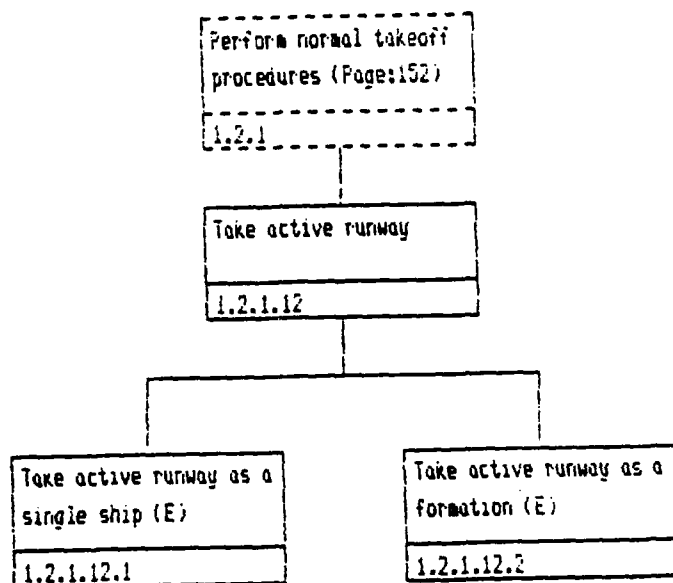
1.2.1

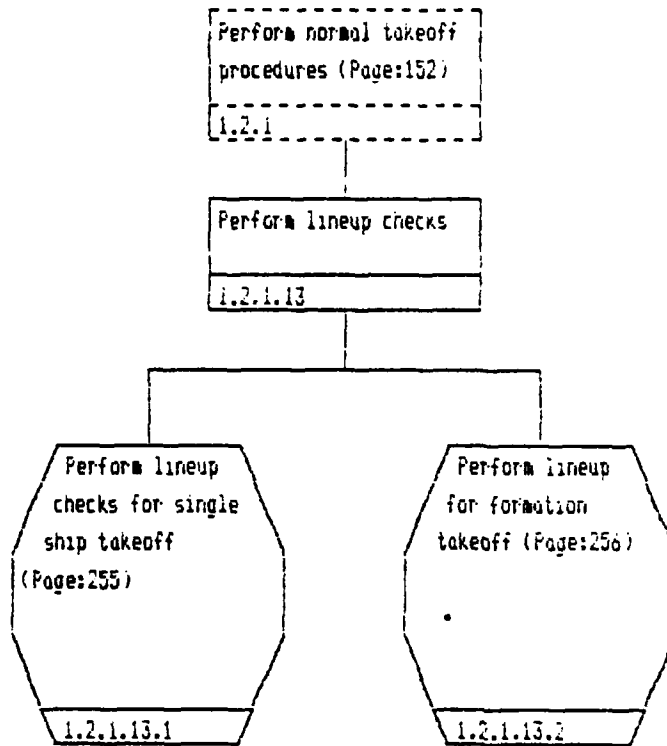
Perform before takeoff  
checks

1.2.1.11

Match before takeoff  
checklist items with  
their associated notes,  
cautions, warnings,  
tolerances, limits  
and/or critical values  
without error in  
accordance with -1.

1.2.1.11.1





Perform lineup checks  
(Page:254)

1.2.1.13

Perform lineup checks  
for single ship takeoff

1.2.1.13.1

Describe the steps in  
the procedure for  
performing single ship  
lineup checks with  
associated tolerances,  
limits, and critical  
values without error.

1.2.1.13.1.1

Perform lineup checks  
(Page:254)  
1.2.1.13

Perform lineup for  
formation takeoff  
1.2.1.13.2

Describe the procedures  
and techniques for  
formation lineup in the  
F-16.  
1.2.1.13.2.1

Perform takeoff  
procedures (Page:151)

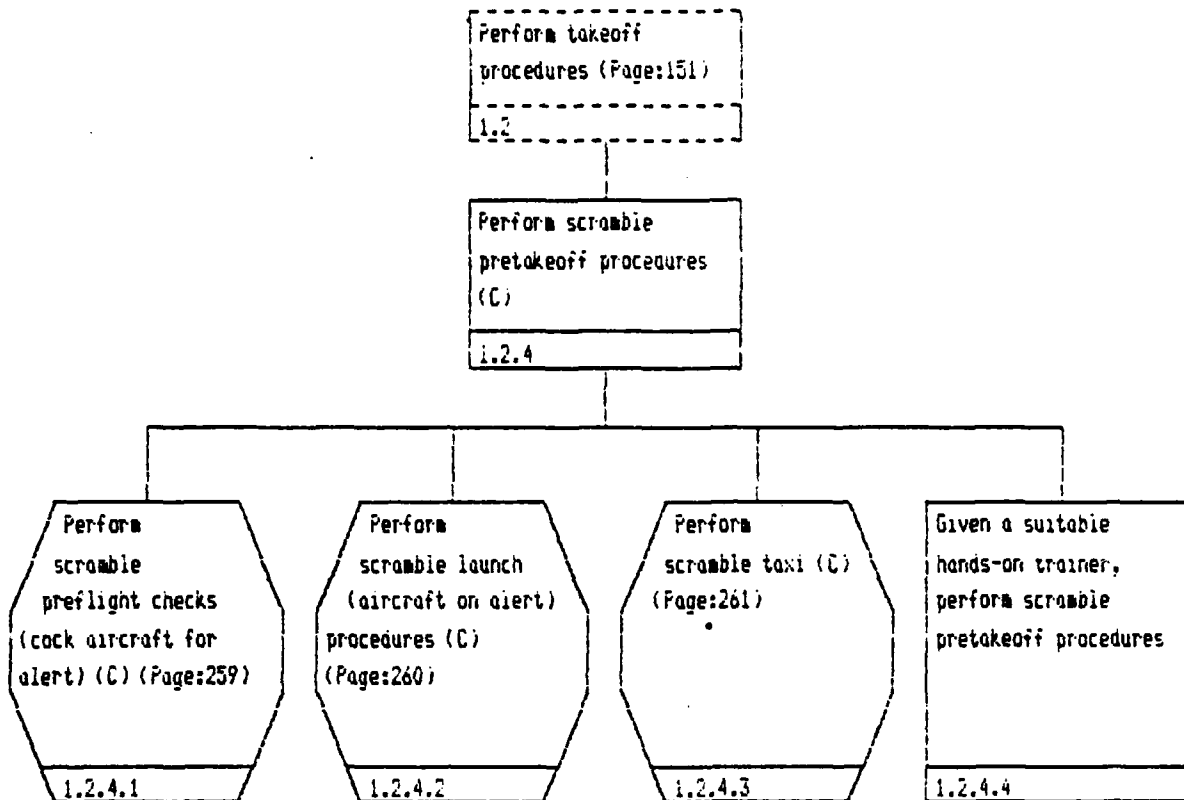
1.2

Perform adverse weather  
pretakeoff procedures

1.2.3

State the special  
considerations for  
performing adverse  
weather pretakeoff  
procedures with no  
omissions.

1.2.3.1



Perform scramble  
pretakeoff procedures  
(C) (Page:258)  
1.2.4

Perform scramble  
preflight checks (cock  
aircraft for alert) (C)  
1.2.4.1

Describe the steps in  
the procedure for  
performing a scramble  
preflight check in  
correct order with the  
associated notes,  
cautions, warnings,  
critical values,  
tolerances, and limits  
with no omissions.  
1.2.4.1.1

Perform scramble  
pretakeoff procedures  
(C) (Page:258)

1.2.4

Perform scramble launch  
(aircraft on alert)  
procedures (C)

1.2.4.2

Describe the steps in  
the procedure for  
performing scramble  
launch in correct order  
with the associated  
notes, cautions,  
warnings, critical  
values, tolerances, and  
limits with no  
omissions.

1.2.4.2.1

Perform scramble  
pretakeoff procedures  
(C) (Page:258)

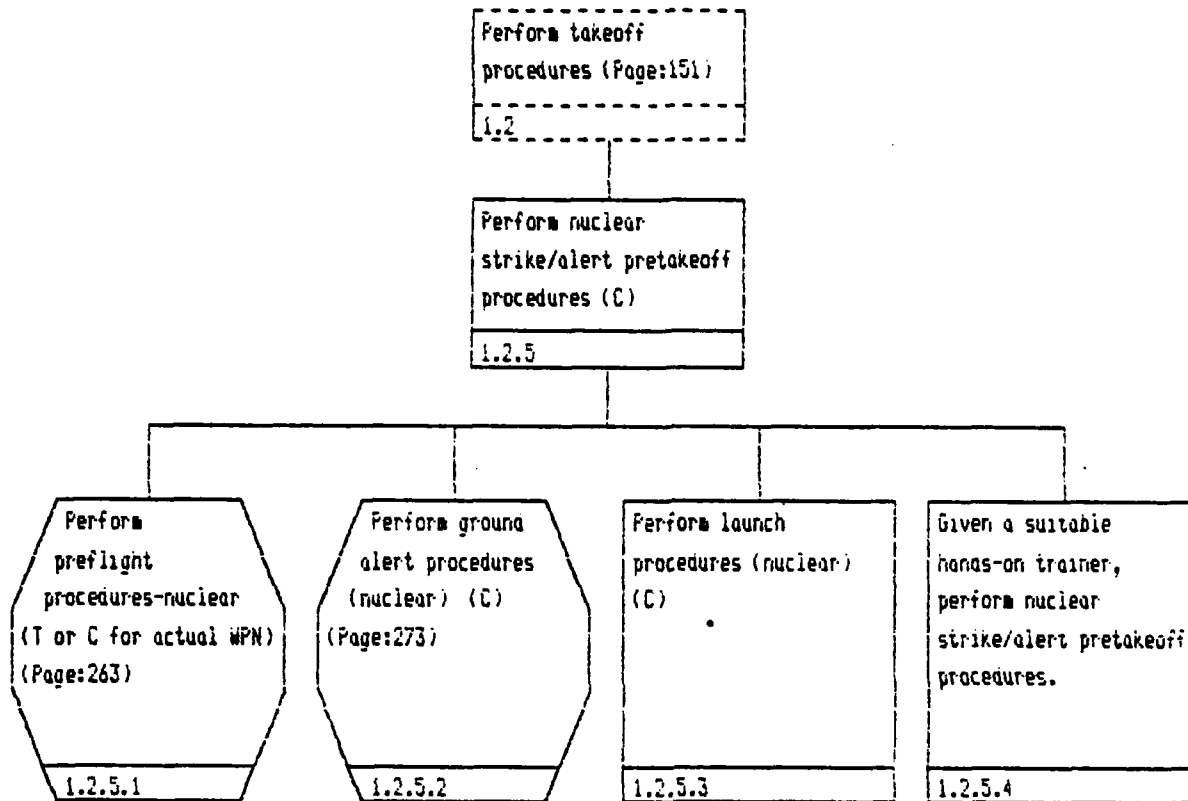
1.2.4

Perform scramble taxi  
(C)

1.2.4.3

Describe the steps in  
the procedure for  
performing scramble  
taxi in correct order  
with the associated  
notes, cautions,  
warnings, critical  
values, tolerances and  
limits with no  
omissions.

1.2.4.3.1



Perform nuclear  
strike/alert pretakeoff  
procedures (C)  
(Page:262)  
1.2.5

Perform preflight  
procedures-nuclear (T  
or C for actual WPN)  
1.2.5.1

Check AFTO Form 781  
(nuclear) (T or C for  
actual WPN)

1.2.5.1.1

Perform exterior  
inspection-aircraft  
(nuclear) (see perform  
exterior  
inspection-a/c) (T or  
C for actual WPN)

1.2.5.1.2

Perform  
exterior  
inspection -  
munitions (nuclear) (T  
or C for actual WPN)  
(Page:264)

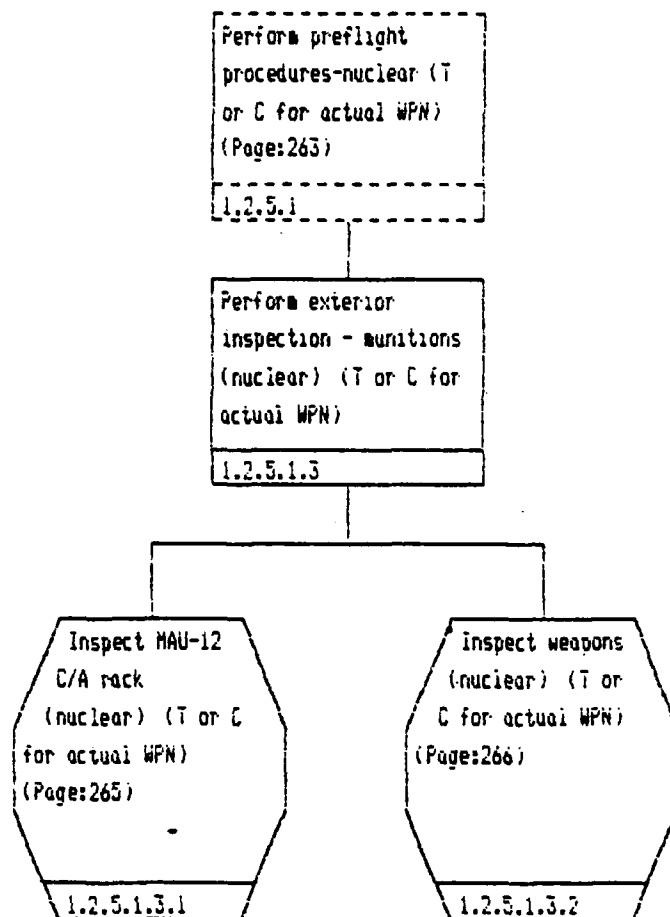
1.2.5.1.3

Perform  
interior  
inspection (power  
off) - nuclear (T or C  
for actual WPN)  
(Page:270)

1.2.5.1.4

Perform  
interior  
inspection (power  
on) - nuclear (T or C  
for actual WPN)  
(Page:271)

1.2.5.1.5



Perform exterior  
inspection - munitions  
(nuclear) (T or C for  
actual WPN) (Page:264)

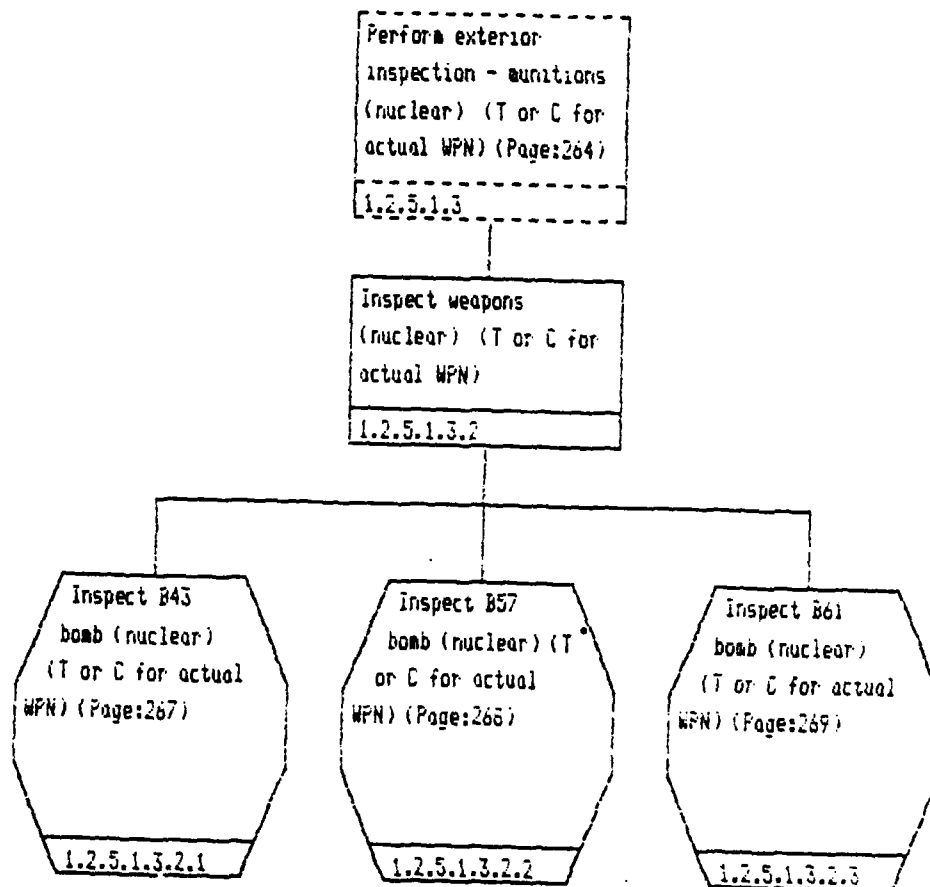
1.2.5.1.3

Inspect MAU-12 C/A rack  
(nuclear) (T or C for  
actual WPN)

1.2.5.1.3.1

Match MAU-12 C/A rack  
(nuclear) checklist  
items with their  
associated notes,  
cautions, warnings,  
tolerances, limits and  
/or critical values  
without error in  
accordance with -25.

1.2.5.1.3.1.1



Inspect weapons  
(nuclear) (T or C for  
actual WPN) (Page:266)  
1.2.5.1.3.2

Inspect B43 bomb  
(nuclear) (T or C for  
actual WPN)  
1.2.5.1.3.2.1

Match B43 bomb  
(nuclear) checklist  
items with their  
associated notes,  
cautions, warnings,  
tolerances, limits  
and/or critical values  
without error in  
accordance with -25.  
1.2.5.1.3.2.1.1

Inspect weapons  
(nuclear) (T or C for  
actual WPN) (Page:266)

1.2.5.1.3.2

Inspect B57 bomb  
(nuclear) (T or C for  
actual WPN)

1.2.5.1.3.2.2

Match B57 bomb  
(nuclear) checklist .  
items with their  
associated notes,  
cautions, warnings,  
tolerances, limits  
and/or critical values  
without error in  
accordance with -25.

1.2.5.1.3.2.2.1

Inspect weapons  
(nuclear) (T or C for  
actual WPN) (Page:266)

1.2.5.1.3.2

Inspect B61 bomb  
(nuclear) (T or C for  
actual WPN)

1.2.5.1.3.2.3

Match B61 bomb  
(nuclear) checklist  
items with their  
associated notes,  
cautions, warnings,  
tolerances, limits  
and/or critical values  
without error in  
accordance with -25.

1.2.5.1.3.2.3.1

Perform preflight  
procedures-nuclear (T  
or C for actual WPN)  
(Page:263)

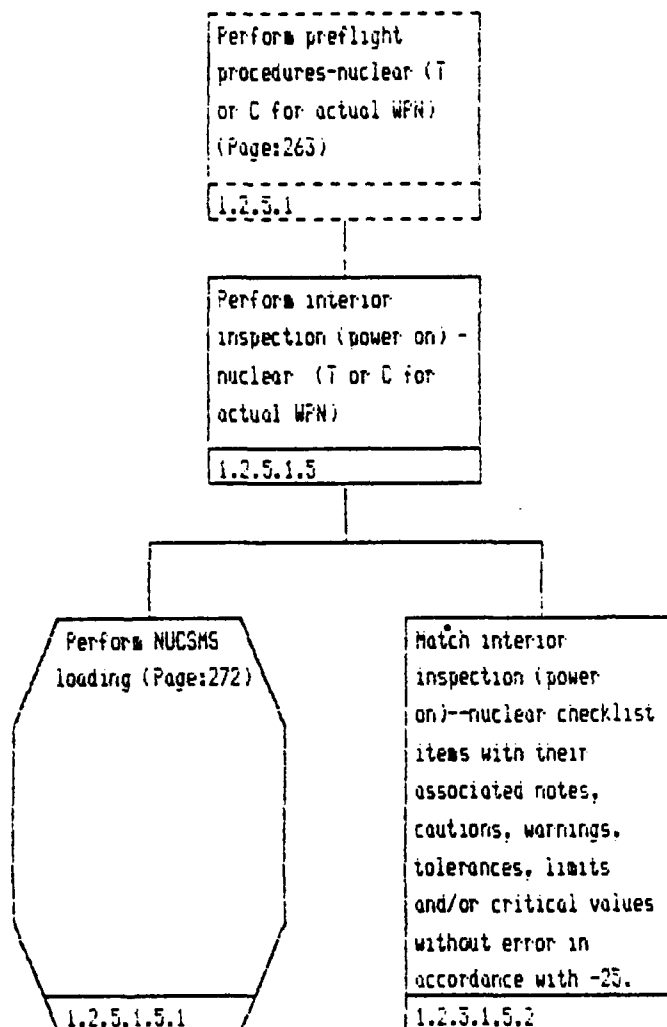
1.2.5.1

Perform interior  
inspection (power off)  
- nuclear (T or C for  
actual WPN)

1.2.5.1.4

Match interior  
inspection (power  
off)--nuclear checklist  
items with their  
associated notes,  
cautions, warnings,  
tolerances, limits  
and/or critical values  
without error in  
accordance with -25.

1.2.5.1.4.1



Perform interior  
inspection (power on) -  
nuclear (T or C for  
actual WPN) (Page:271)

1.2.5.1.5

Perform NUCSMS loading

1.2.5.1.5.1

Describe the steps in  
the procedure for  
performing NUC loading  
with the associated  
notes, cautions,  
warnings, critical  
values, tolerances, and  
limits with no  
omissions.

1.2.5.1.5.1.1

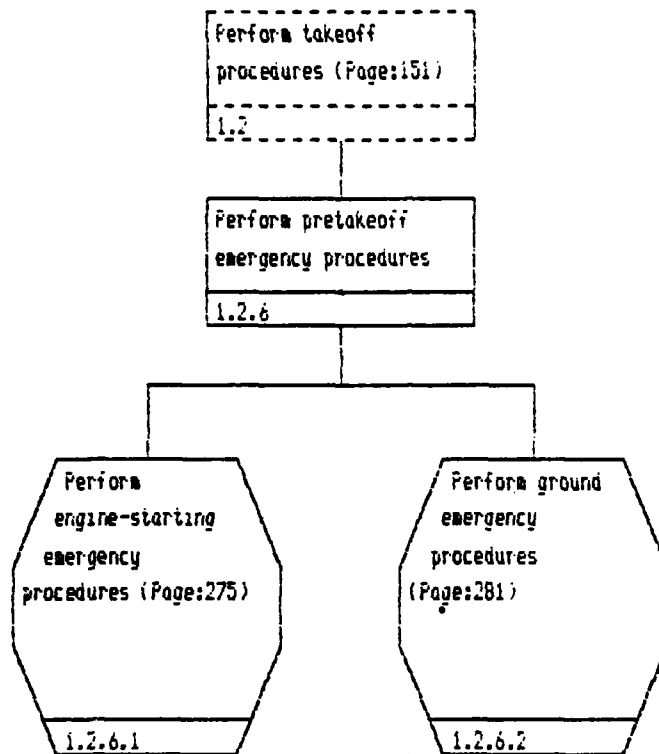
Given a suitable  
hands-on trainer,  
perform NUC loading.

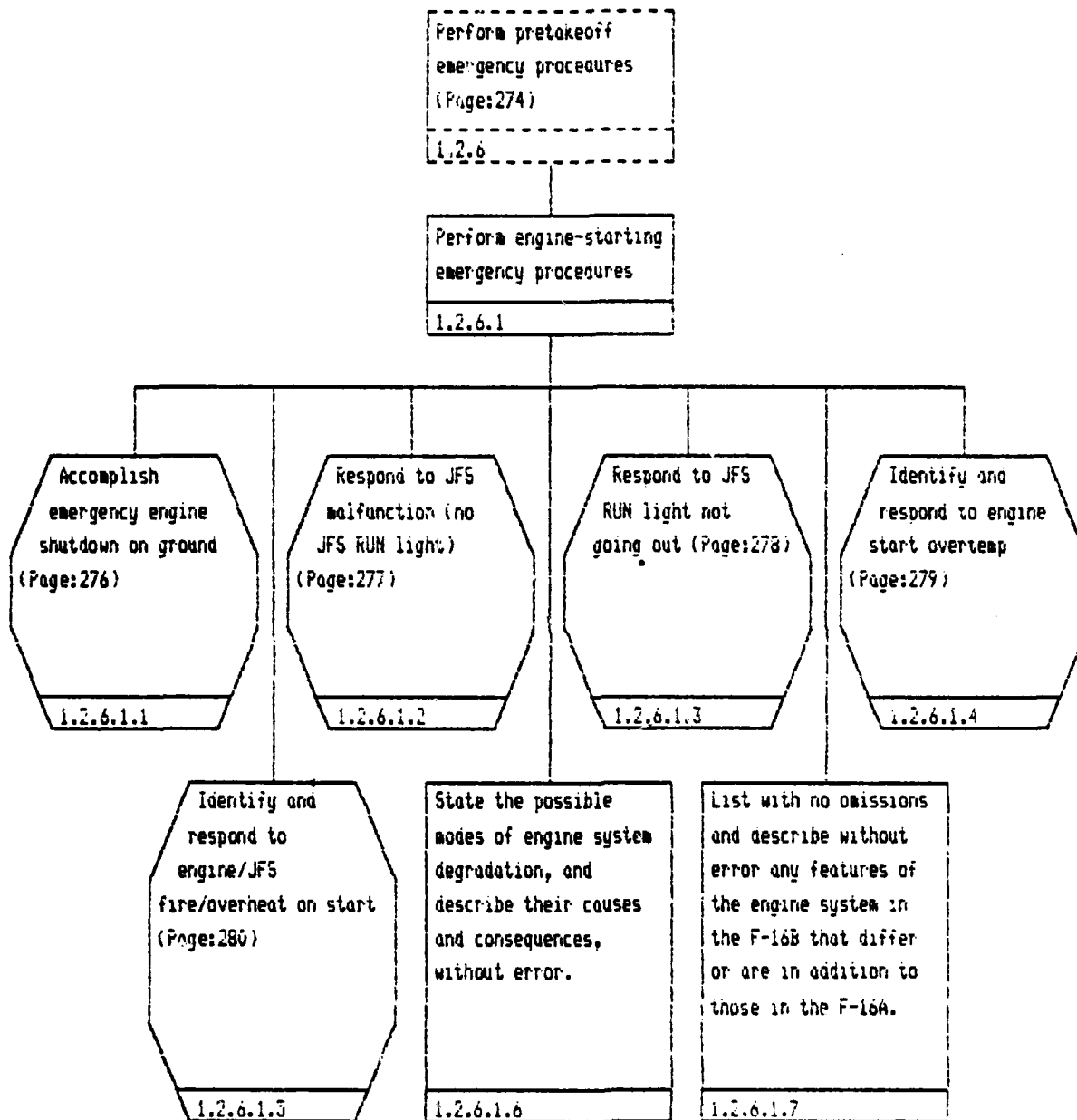
1.2.5.1.5.1.2

Perform nuclear  
strike/alert pretakeoff  
procedures (C)  
(Page:262)  
1.2.5

Perform ground alert  
procedures (nuclear)  
(C)  
1.2.5.2

Describe the procedure  
for performing ground  
alert procedures (NUC)  
and name the  
considerations of most  
importance with no  
omissions.  
1.2.5.2.1





Perform engine-starting  
emergency procedures  
(Page:275)

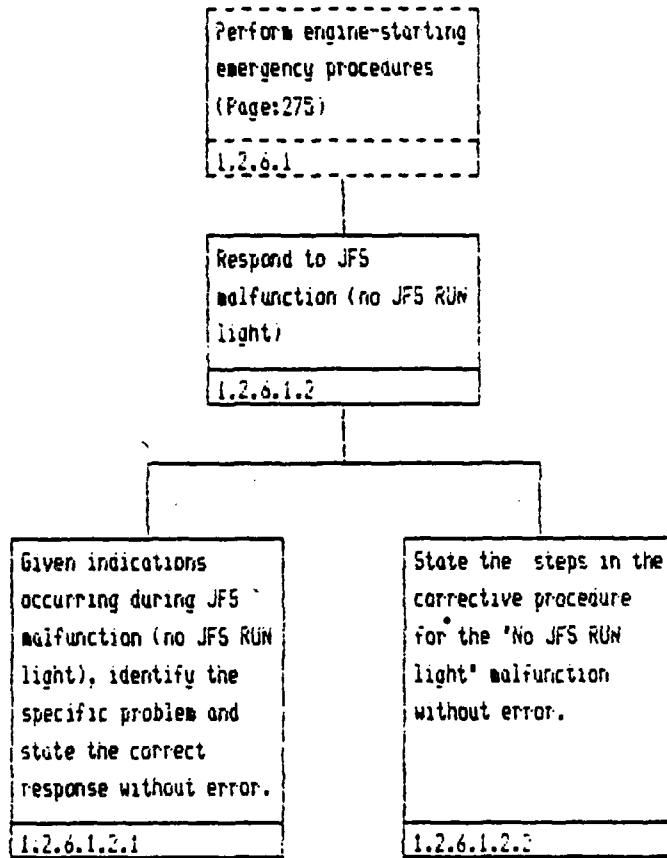
1.2.6.1

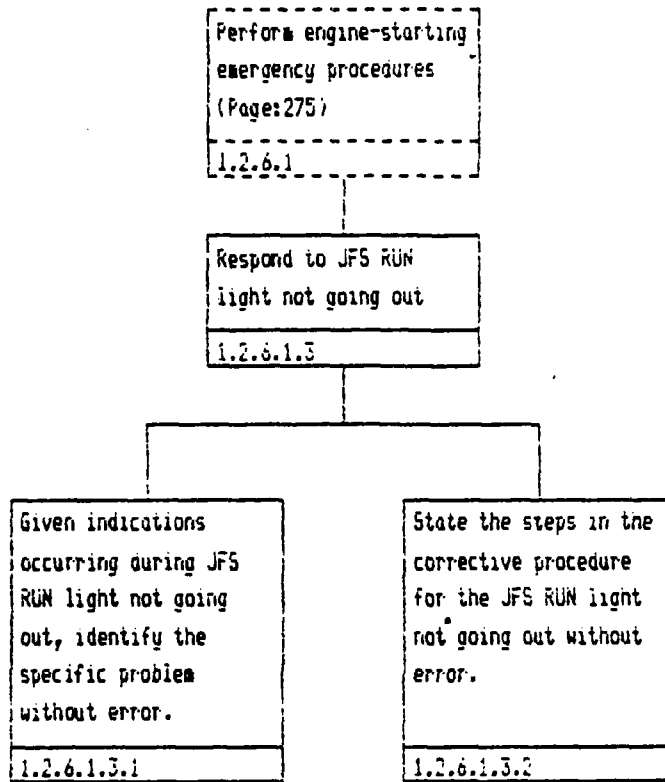
Accomplish emergency  
engine shutdown on  
ground

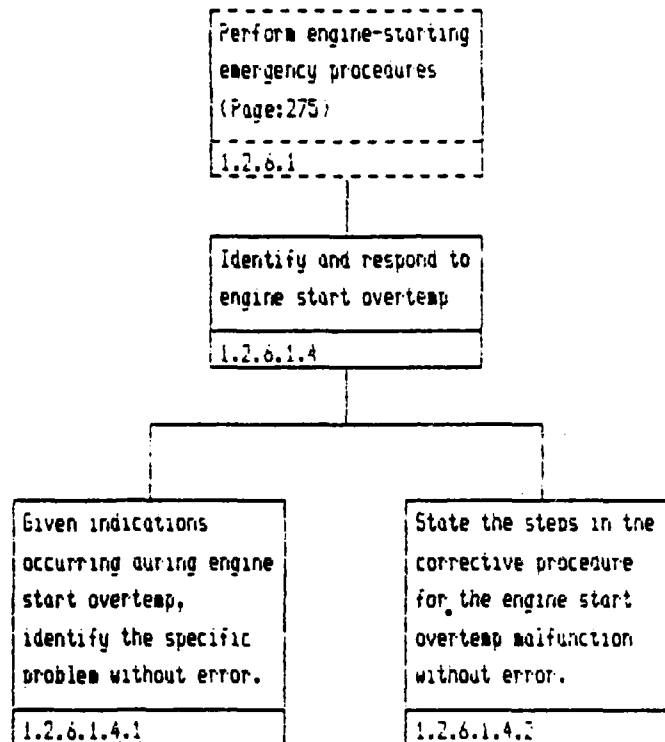
1.2.6.1.1

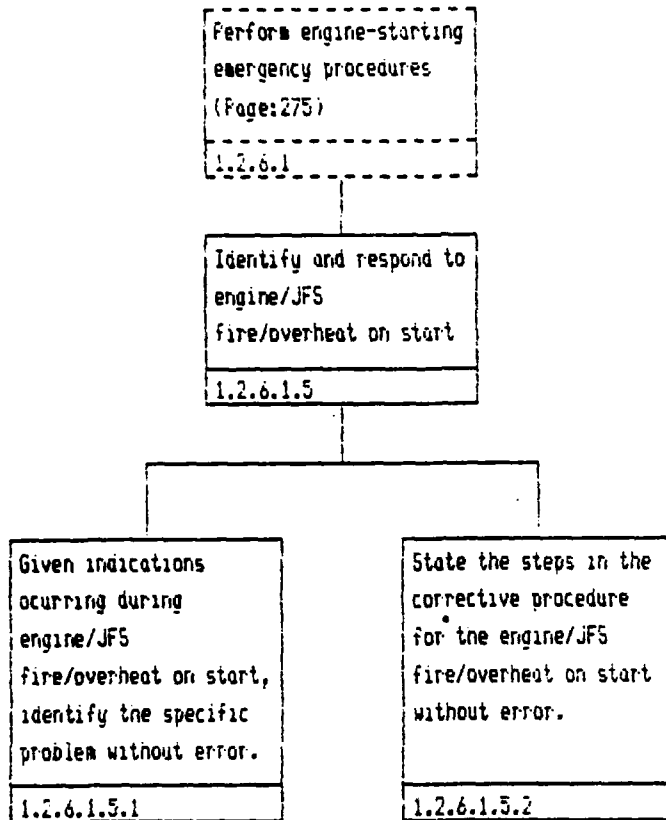
Describe the steps in  
the procedure for  
emergency engine  
shutdown on ground in  
correct order with no  
omissions.

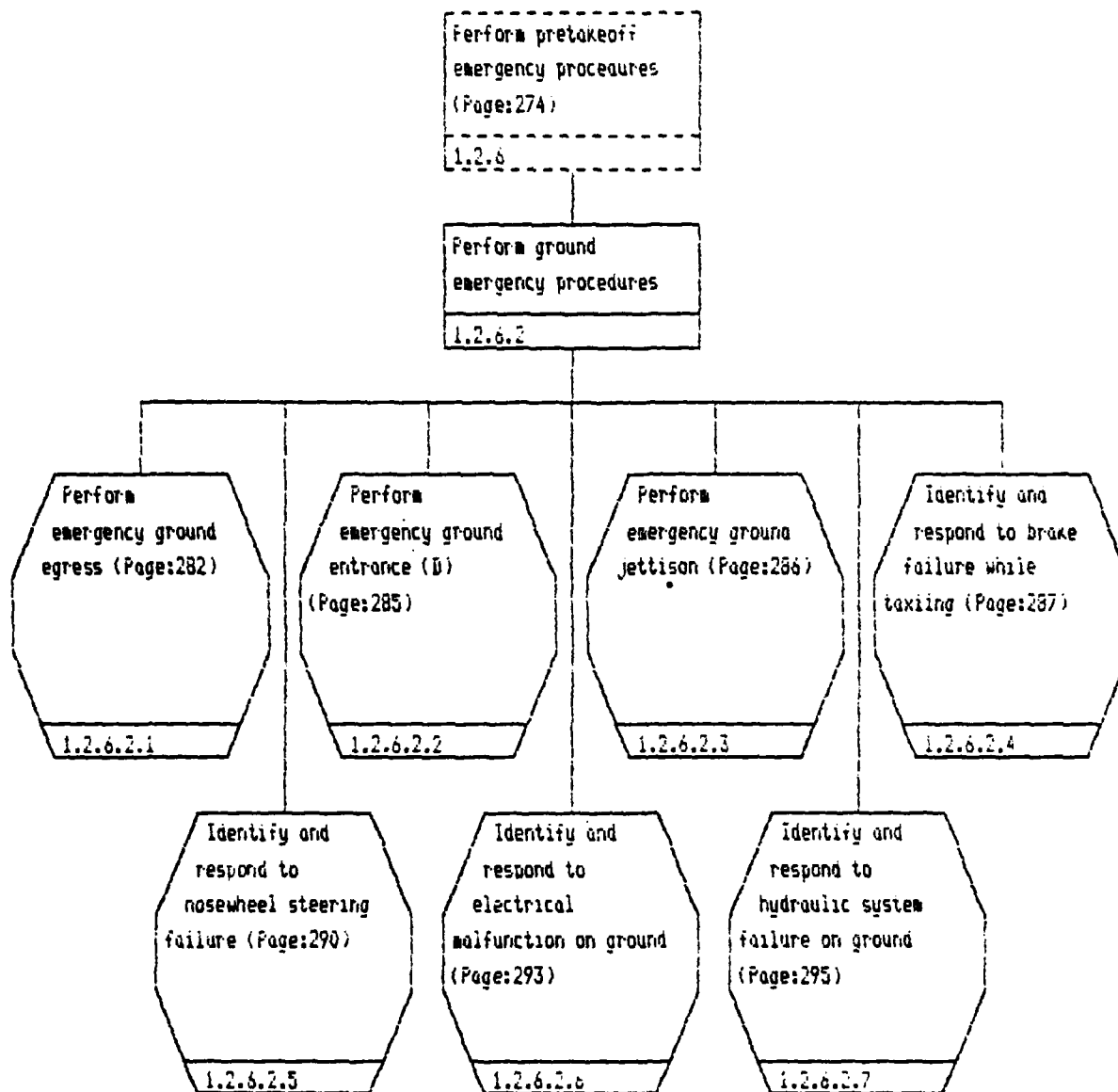
1.2.6.1.1.1

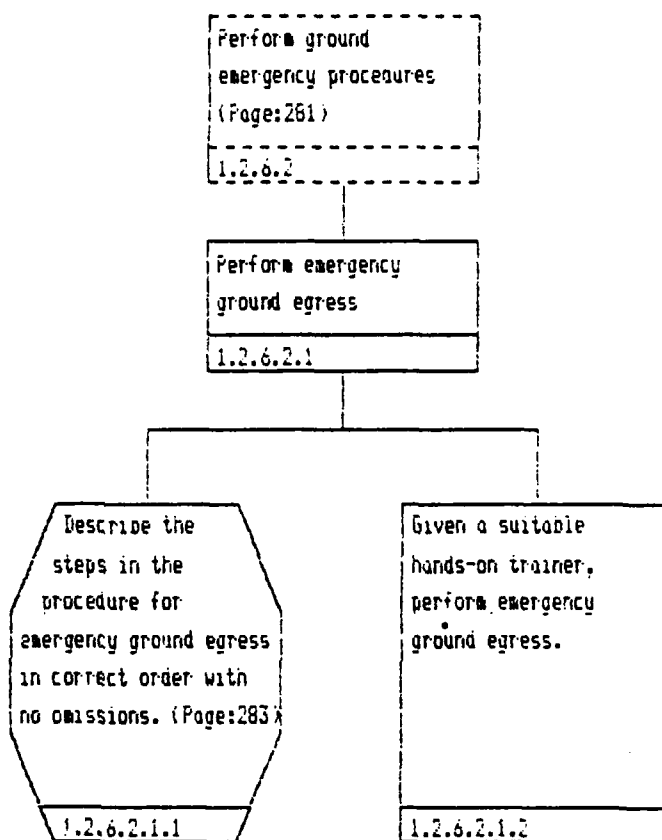


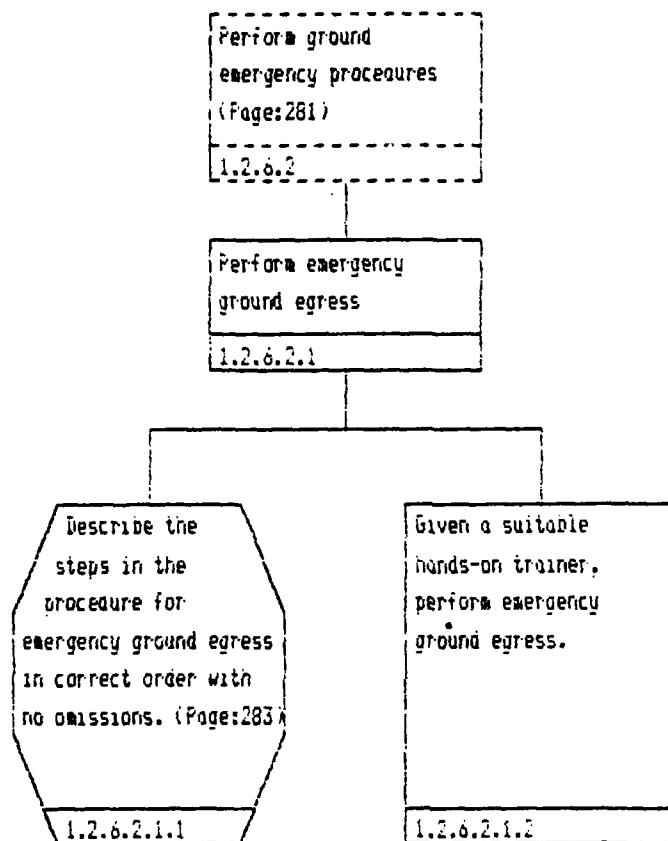












Perform emergency  
ground egress (Page:282)

1.2.6.2.1

Describe the steps in  
the procedure for  
emergency ground egress  
in correct order with  
no omissions.

1.2.6.2.1.1

Systems  
workbook--escape  
system (Page:284)

1.2.6.2.1.1.1

Describe the steps in the procedure for emergency ground egress in correct order with no omissions. (Page:283)

1.2.6.2.1.1

Systems  
workbook--escape system

1.2.6.2.1.1.1

Describe the escape system in the F-16A and F-16B aircraft.

1.2.6.2.1.1.1.1

List with no omissions and describe without error the components and/or functions of the escape system, including as appropriate the sequence and modes of internal and external operation.

1.2.6.2.1.1.1.2

Given a photograph or drawing of the aircraft cockpit, locate and describe the function and manipulation of each control that directly affects the escape system without error.

1.2.6.2.1.1.1.3

Given a drawing or photograph of the aircraft cockpit, locate and describe the interpretation of each indicator that monitors the escape system without error.

1.2.6.2.1.1.1.4

State the possible modes of escape system degradation, and describe their causes and consequences without error.

1.2.6.2.1.1.1.5

List with no omissions and describe without error any features of the escape system in the F-16B that differ or are in addition to those in the F-16A.

1.2.6.2.1.1.1.6

Perform ground  
emergency procedures  
(Page:281)  
1.2.6.2

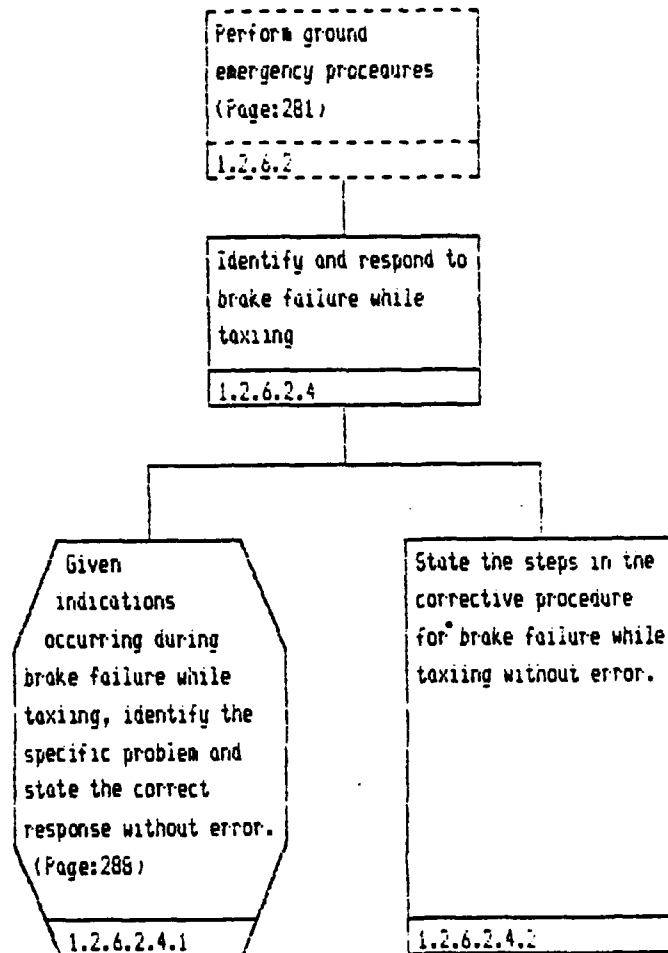
Perform emergency  
ground entrance (D)  
1.2.6.2.2

Describe the steps in  
the procedure for  
emergency ground •  
entrance in correct  
order with no omission.  
1.2.6.2.2.1

Perform ground  
emergency procedures  
(Page:281)  
1.2.6.2

Perform emergency  
ground jettison  
1.2.6.2.3

Describe the steps in  
the procedure for  
emergency ground  
jettison in correct  
order with no omissions.  
1.2.6.2.3.1



Identify and respond to  
brake failure while  
taxiing (Page:287)

1.2.6.2.4

Given indications  
occurring during brake  
failure while taxiing,  
identify the specific  
problem and state the  
correct response  
without error.

1.2.6.2.4.1

Systems  
workbook - wheel  
brake system  
(Page:289)

1.2.6.2.4.1.1

Given indications occurring during brake failure while taxiing, identify the specific problem and state the correct response without error.  
(Page:288)  
1.2.6.2.4.1

Systems workbook - wheel brake system  
1.2.6.2.4.1.1

Describe the wheel brake system in the F-16A and F-16B aircraft.  
1.2.6.2.4.1.1.1

List with no omissions and describe without error the components and/or functions of the wheel brake system, including as appropriate the sequence and modes of internal and external operations.  
1.2.6.2.4.1.1.2

Given a photograph or drawing of the aircraft cockpit, locate and describe the function of each control that directly affects the wheel brake system, without error.  
1.2.6.2.4.1.1.3

Given a photograph or drawing of the aircraft cockpit, locate and describe the interpretation of each indicator that monitors the wheel brake system without error.  
1.2.6.2.4.1.1.4

State the possible modes of wheel brake system degradation, and describe their causes and consequences without error.  
1.2.6.2.4.1.1.5

List with no omissions and describe without error any features of the wheel brake system in the F-16B that differ or are in addition to those in the F-16A.  
1.2.6.2.4.1.1.6

Perform ground  
emergency procedures  
(Page:281)  
1.2.6.2

Identify and respond to  
nosewheel steering  
failure  
1.2.6.2.5

Given  
indications  
occurring during  
nosewheel steering  
failure, identify the  
specific problem and  
state the correct  
response without error.  
(Page:291)  
1.2.6.2.5.1

Perform ground  
emergency procedures  
(Page:281)  
1.2.6.2

Identify and respond to  
nosewheel steering  
failure  
1.2.6.2.5

Given  
indications  
occurring during  
nosewheel steering  
failure, identify the  
specific problem and  
state the correct  
response without error.  
(Page:291)  
1.2.6.2.5.1

Identify and respond to  
nosewheel steering  
failure (Page:290)

1.2.6.2.5

Given indications  
occurring during  
nosewheel steering  
failure, identify the  
specific problem and  
state the correct  
response without error.

1.2.6.2.5.1

Systems  
workbook--nosewheel  
steering system  
(Page:292)

1.2.6.2.5.1.1

Given indications occurring during nosewheel steering failure, identify the specific problem and state the correct response without error.  
(Page:291)  
1.2.6.2.5.1

Systems  
workbook--nosewheel steering system  
1.2.6.2.5.1.1

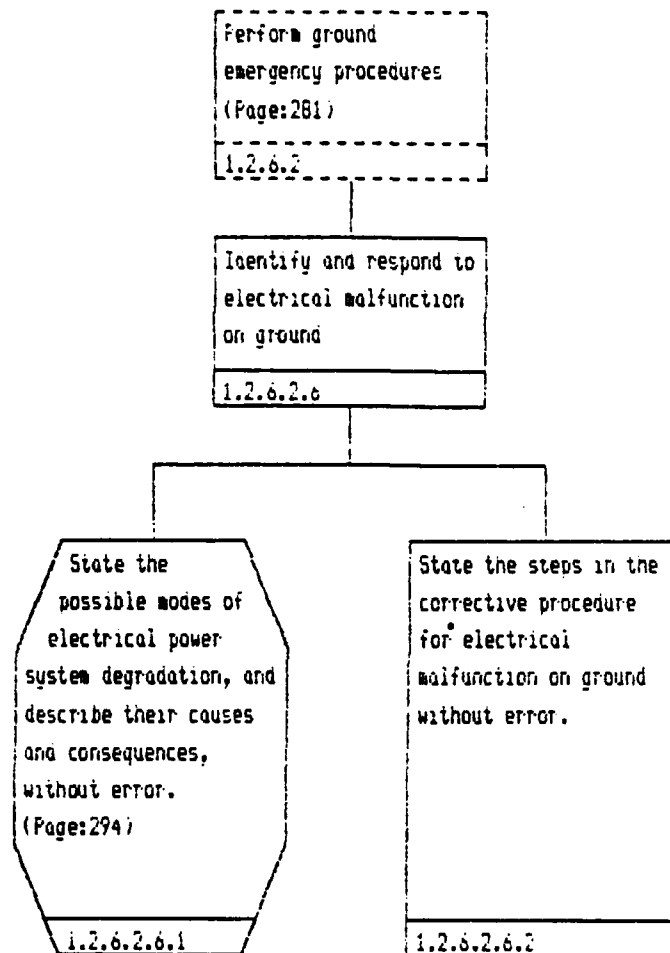
Describe the nosewheel steering system in the F-16A and F-16B aircraft.  
1.2.6.2.5.1.1.1

List with no omissions and describe without error the components and/or functions of the nosewheel steering system, including as appropriate the sequence and modes of internal and external operation.  
1.2.6.2.5.1.1.2

Given a photograph or drawing of the aircraft cockpit, locate and describe the function and manipulation of each control that directly affects the nosewheel steering system without error.  
1.2.6.2.5.1.1.3

Given a photograph or drawing of the aircraft cockpit, locate and describe the interpretation of each indicator that monitors the nosewheel steering system without error.  
1.2.6.2.5.1.1.4

State the possible modes of nosewheel steering system degradation, and describe their causes and consequences without error.  
1.2.6.2.5.1.1.5



Identify and respond to  
electrical malfunction  
on ground (Page:293)

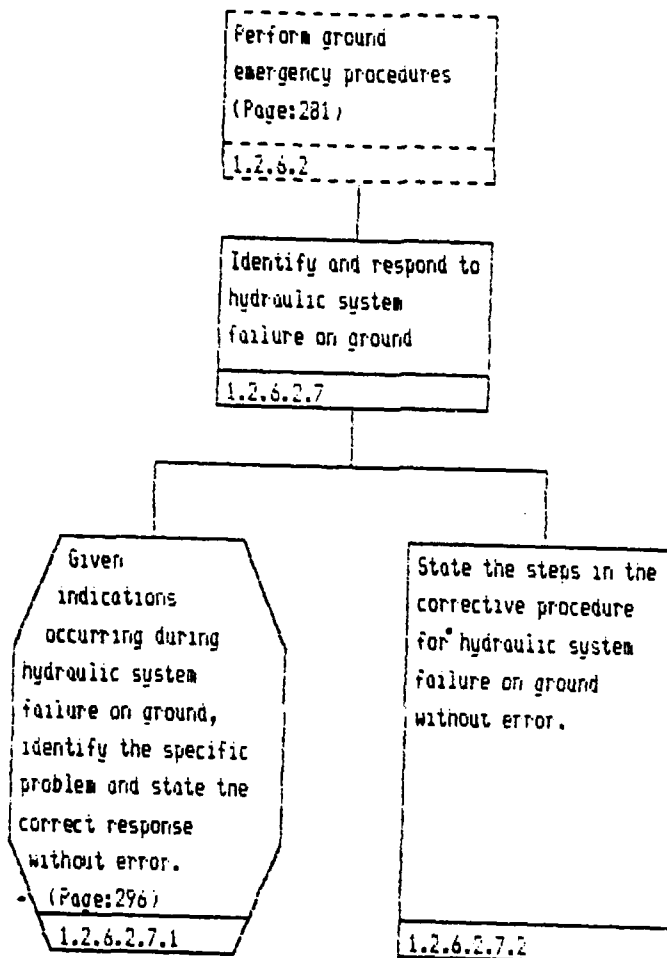
1.2.6.2.6

State the possible  
modes of electrical  
power system  
degradation, and  
describe their causes  
and consequences,  
without error.

1.2.6.2.6.1

List with no omissions  
and describe without  
error any feature of  
the electrical power  
system in the F-16B  
that differ or are in  
addition to those of  
the F-16A.

1.2.6.2.6.1.1



Identify and respond to  
hydraulic system  
failure on ground  
(Page:295)

1.2.6.2.7

Given indications  
occurring during  
hydraulic system  
failure on ground,  
identify the specific  
problem and state the  
correct response  
without error.

1.2.6.2.7.1

System  
workbook--hydraulic  
power system  
(Page:297)

1.2.6.2.7.1.1

Given indications occurring during hydraulic system failure on ground, identify the specific problem and state the correct response without error.  
(Page:296)

1.2.6.2.7.1

System  
workbook--hydraulic  
power system

1.2.6.2.7.1.1

Label the hydraulic power system in the F and F-16B aft.

1.2.7.1.1.1

List with no omissions and describe without error the components and/or functions of the hydraulic power system, including as appropriate the sequence and modes of internal and external operation.

1.2.6.2.7.1.1.2

Given a photograph or drawing of the aircraft cockpit, locate and describe the function and manipulation of each control that directly affects the hydraulic power system without error.

1.2.6.2.7.1.1.3

Given a photograph or drawing of the aircraft cockpit, locate and describe the interpretation of each indicator that monitors the hydraulic power system without error.

1.2.6.2.7.1.1.4

State the possible modes of hydraulic power system degradation, and describe their causes and consequences without error.

1.2.6.2.7.1.1.5

List with no omissions and describe without error any features of the hydraulic power system in the F-16B that differ or are in addition to the F-16A.

1.2.6.2.7.1.1.6